7

If focus test is centre to violet, shorten the focus, i.e. increase micrometer readings

readings

2

3

Dome Temp.

Focus

Dome Temp.

Hour Angle
Bal

me Temp.....

cus.....

me Temp.....

Transparency Conditions.....

4

ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						DAVID DUNLAP OBSERVATORY	
						74" LOG BOOK	
						VOL 28	
						PLATE NOS. 24627 - 25207	
						MAR 1959 - JUN 1960	

S

F/SET

Date 27/28 March 1959 **Observer** vdB(HA) - DG **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24627	BD 47° 842	3h 23.6	+47° 19'	12"	103aO	.016	+2°C	19h 25	20h 53	
24628	HD 82570	9h 27.7	+29° 19'	"	"	"	+2°C	21h 16m	23h 06	
24629	HD 145020	12h 00.4	+29° 04'	"	"	"	+2°C	23h 20m	00 02	
24630	HD 98154	11h 12.4	+26° 01'	"	"	set .008	+2.2°C	00 16	00 56	
24631	HD 114725	13 07.3	+16° 40'	"	"	"	+2.5°C	01 06	~~00~~ 01 58	
24632	HD 119637	13 39.3	+46° 01'	"	"	"	+2.5°C	02 04	02 54	
24633	HD 148832	16 25.7	+15° 19'	"	"	"	+2.1°C	03 05	03 47	
24634	HD 154081	16 58.2	+58° ~~26'~~ 31'	"	"	"	+2.5°C	04h 09	04 29	
24635	HD 157255	17 17.1	+32° 47'	"	"	"	+2.6°C	04 39	04 59	
24636	HD 157297	17 17.3	+11° 47'	"	"	"	+2.3°C	05 06	05 28	

Dome Temp. + 33° F

Focus 12.90

Dome Temp. + 17° F

Transparency Conditions Fine

23.40 partly cloudy

Dark sky pleasure

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							Mns 9 begin 9054	
0h 53	5h 27 W	47° 29'	B1	8.7	A0	1+1+1	α Per & Programs p. 55 9084	fair
23h 06	1h 36 W	29° 03'	0-1	10.0	G8	1+1+1	KAFS Programs p. 95 set 10 9089 - 9150	bad weath
0 02	0h 03 E	28° 40'	0-1	9.56	K0	1+ "	" " " p. 115 set 10 9159 - 9214	weath
0 56	1h 43 E	+25° 38'	0	7.36	A2	2-2-2	set 5 Kaptein 8x8	fine
1 58	0h 49 W	+16° 20'	0	7.76	F2	2-2-2	set 5 " " set 8, 9258	fine
02 54	1h 15 E	+45° 42'	0	7.68	K0	2-2-2	set 5 " "	fine
03 47	0h 44 W	+10° 11'	0	7.57	A3	2-2-2	set 5 " "	fine
04 21	0h 39 W	+58° 29'	0	6.80	A3	2-2-2	set 5 " "	fine
04 59	0h 24 W	+32° 41'	0	6.83	A0	2-2-2	set 9 " "	fine
05 21	0h 12 E	+11° 42'	0	7.08	A0	2-2-2	set 5 " "	fine
						8/6	set 9 focus tests	fine

2 PM + 8

7

Date MAR 28/29 1959 Observer Ru - BK Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Airmass M
24637	BD + 49° 958	03h 24.7	+49 33	12	IO3AO	.0016	0°C	19 24	21 02	2 517W
24638	BD + 45° 1758	09 38.7	+45 24	"	"	.0016	-0.6	21 22	23 40	3 215W
24639	HD 96093	10 59.9	+60 22	"	"	"	-06	00 02	01 22	1 [illegible]
24640	HD 121933	13 53.5	+45 39	"	"	"	"	02 12	03 32	2 [illegible]
24641	BD +60° 1598	15 14.3	+60 08	"	"	"		03 42	05 12	3 [illegible]
	Focus Lost O.T.B.									

NOTE: Nearly an hour spent trying (unsuccesfully) to identify the field of HD 113995. Although four plates were taken nobody has yet drawn the field for this star!!

ome Temp. +26°F

Transparency Conditions Good.

ocus

ome Temp. 20°F

Aurora 945 EST — 10:15 EST
after midnight till dawn

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.			REMARKS		Quality
2102	5 37W	+49 43	0	9.1	F_0	1-1-1	set	5	α Per # 958	9376 - 9406	poor
2340	2 05W	+45 06	1	9.99	G_2	1-1-1	set	5	KAFS Area 29 HINS 307	9410 - 9470	fine
0122	2 24W	60 00	1	9.56	F_6	1-1-1	set	5	KAFS Area 13 HINS 119	(10) 9475 - 9550	fine
0332	1 44W	45 19	1	9.28	F3	1-1-1	"	5	" HINS 347	(10) 9557 - 9617	l. strong
0512	2 04W	59 54	0	9.84	F5	1-1-1	"	3	" HINS 137	(10) 9619 - 9680	fine
						5/6	"	8			OK
								1PH +4			

field
s yet

9

Date THUR-FRI APR 3-4 1959 Observer DH-Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
~~24642~~	~~BD +45° 1963~~	~~9 40.4~~	~~+45 32~~	I-12	103AO	.016		~~2345~~		L
24642	HD 114059	13 02.9	+29 57	"	"	"	+4.6	0013	0301	2
	Moving Dot.		07B			"				

Dome Temp.....

Focus.....

Dome Temp. +34

Transparency Conditions..... 10

...nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			0	~~9.15~~ ~~Fq~~ ~~+~~			KAFS Set 5 XMtr Set 10 9704 — Too Far West.	
301	0223W	+2939	00	10.06	G8	1-2	" Set 9 " " 9711 — 9733	good.
						4/3	" 2 Haze at 0300	OK.
							1 P.H. +3	

11

1959

Date Saturday-Sunday April 5-6 Observer Hd - Bk Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24643	HD 97438	11h 07.7	+66° 18'	I-12"	103AO	.016	+6.0°C	21 55	23	1
	possibly H.D. 115183	13 10.4	+16 43			set				
24644	HD ~~114785~~	~~13 07.3~~	~~+16° 49'~~	"	"	.008	+5.9°C	23h 40	00 30	2
24645	HD 95975	10 59.2	+60 06	"	"	set .016		00 42	01 32	3
	Focus 10 ft	O.T.B.				.008				

Dome Temp. +37° F.

Focus

Dome Temp.

Transparency Conditions

12

75 visitors. Moved off Hd-Dg.

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5	0 34W	+59°57'	0	9.81	A3	1-1-1	45 KAFS Seq. 9 9769-9770	
0 15	0 10E	+16°23'	0	8.63 ~~7.76~~	K2 ~~F2~~	2-2-2	45 Kaptegn 8x8 wrong star changed to Seq. 7 9771-72 8 9772-79 on CD 00	
1 32	3 00W	59 46		9.85	F7	1-	45 KAFS plate 10 9781-9791	
							closed out.	
					8/6	48		
							1PH Plates needed	

13

Date Mon-Tues Apr 6/7 1919 Observer MR - Li Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
816-90	8 Mon	8h 06.6m	-02° 53'	5000	-3600	10	6/3	19:39	
817-90	HR 3314	8 23.7	-03 47	Hγ	x2	20	5/4	20:13	
818-90	η Hya	8 41.1	+03 32	"		"	"	20:30	
819-90	K Hya	9 38.4	-14 09	Hγ	x 4	"	5/6	20:49	
820-90	α Leo	10 06.1	+12 11	Hγ	x2	"	4/4	21:40	
821-90	γ Leo	10 05.2	+16 58	"		"	5/3	21:56	
822-90	β Leo	10 30.6	19 31	"		"	"	22:10	
823-90	θ Leo	11 12.1	+15 39	Hγ x2	[illegible]	20&10	"	22:25	
824-90	61 UMa	11 39.0	+34 26	5000	-3600	10	"	23:16	
825-90	β Vir	11 47.6	+02 00	"		"	5/6	23:32	
826-90	β CVn	12 31.8	+41 34	"		"	6/2	23:51	
827-90	[illegible]	12h 47.3	+27° 45'	"		"	4/4	[illegible]	
828-90	α Com	12h 52.3	+27° 55'			"	6/2	[illegible]	
	80 UMa	13h 22.6	+55° 12'	"		"			
829-90	η UMa	13h 46.2	+49° 51'	Hγ	[illegible]	[illegible]	4/4	[illegible]	
		cont'd							

Dome Temp. +32°F

Focus

Dome Temp.

Transparency Conditions excellent

14

Dg's shutters open : 25 seconds (W.E.A)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		...	5"	4.4	G2Ib	30"	4A/sec, 2"/min	
		−3° 49'	"	3.95	A0V	"	1A/sec, " Lick D 4260-4530	
		+3 32	"	4.32	B3V	"	" " "	
		−14 11	"	4.56	B5V	"	" " "	
		+12 07	"	1.21	B7V	"	" " "	
		...	"	3.6	A0Ib	"	" " "	
		+9 27	"	3.71	B1Ib	"	" " "	
		...	"	3.19	A2V	"	" " " & 4A/sec [illegible]	
		...	"	5.5	G2V	"	4A/sec Lick H	
		+ ...	"	3.8	[illegible]	"	" " H	
		+41 33	"	4.3	G0V	"	" " H	
		+27° 44'	"	5.1	SpIII	"	" H	
		+29° 55'	7"	4.5	[illegible]	"	" " "	
				4.0	A5V	"	" " " [illegible]	
		+49° 29'	7"	6.60	A3V	"	1A/sec, 2"/min Lick D	

(continued from previous page)

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Date April 6th 39 **Observer** -Li **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
830-90	N Dra	14h 05.m5	+64° 34'	Hr	E	20	5-3	01:43		
831-90	109 Vir	14h 44.m7	+02° 04'	"		"	5-3	02:00		
832-90	α C Br	15h 32.m9	+26° 51'	"		"	4-5	02:16		
	t Her	15h 39.m8	+20° 09'	"		"				
833-90	15 Boo	15h 05.m5	+25° 02'	5000-3600		Set 10	6-3	02:41		
834-90	γ Vir	16h 18.m6	+16° 27'	Hr	E	Set 10	5-3	03:07		
835-90	S Oph	16h 35.m0	-10° 23'	Hr	S	"	5-2	03:26		
836-90	τ Oph	17h 45.m9	+02° 43'	Hr	E	"	5-3	04:01		
837-90	67 Oph	17h 58.m6	+02° 56'	"		"	5-4	04:18		
838-90	39 Dra	18h 23.m4	+58° 47'	"		"	5-5	04:36		
839-90	α Lyr	18h 35.m6	+38° 49'	"		"	5-6	05:01		

Dome Temp.....

Focus.....

Dome Temp. 31°F

Transparency Conditions Good

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+64° 33'	7"	3.53	A6V	30"	[illegible], [illegible], L+D, 1250-1530	
		+02° 02'	6"	3.74	A0V	30"	" , " , " , " "	
		+26° 50'	9"	2.21	A0V	30"	" , " , " , " "	
				4.56	A1V	"	" , " , " , (cirrus band)	
		+25° 01'	4"	5.0	F5V	30"	4A/Sec, 7"/min, Lick H	
		+46° 23'	5"	3.73	B9V	30"	[illegible], [illegible], L+D, 1250-1530	
		-60° 23'	9"	2.51	G3V	30"	" , " (clouds in [illegible]) "	
		+02° 43'	7"	2.73	A0V	30"	" , " , " , " "	
		+02° 54'	6"	4.00	B5IV	30"	" , " , " , " "	
		+58° 44'	5"	4.85	A1V	30"	" , " , " , " "	
		+38° 43'	12"	0.04	A0V	30"	" , " (clouds +0) , " "	

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Date Sun April 12-13/59 Observer L-H.S Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24646	BD+45° 1763	9 40.4	45 32	I-12½	E103Ao	Set .016	+5.4	20 40	0120	4
24647	" -60° 1592	15.14.3	60 08	"	"	"	5.5	01 36	0126	
24648	HD 157702	17 19.7	+18 56	"	"	003	5.5	01 29	0453	2
	Focus Test	0713				"				

Dome Temp.
Focus
Dome Temp.
Hour Angle End

Dome Temp. 34°F

Transparency Conditions Good

Focus

Dome Temp.

Clouds early evening.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0442W	45 15	1	9.95	F8	1-1-1	KAFS Prog.	
	0[illegible]5W	59 54	0-1	7.84	F5	1-1-1	Sd5 " 9316 - 9[illegible] #10	
	0032W	18 51	0-1	7.48	A0	2-2-2	" 5 KA[illegible] 9870 - 9879 10 [illegible] #8	
						8/6	" 9	
							2 P.H + 8	

Why no field drawn? Hd.

Date Mon Apr 13-14/59 **Observer** Hd — Li **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24649	BD+29° 1908	9 25.2	+29 44	I-12	E-103a-O	016	+8.0	19 54	21 54	3
24650	BD+30° 1875	9 26.6	+30 02	"	"	"	"	21 58	23 38	4
24651	HD 100150	11 26.4	+18 19	"	"	.008	+7.9	23 50	[illegible]	1
24652	HD 104381	11h 56.m1	+12° 56'	"	"	"	+7.9	00:53	[illegible]	2
	HD 107053	12h 13.m5	+33° 18'	"	"	"				
24653	HD 116654	13h 19.m8	+32° 37'	"	"	"	+7.9	00:51	[illegible]	3
24654	HD ~~118654~~ 117815	13h 27.m7	+47° 46'	"	"	"	+7.9	01:28	01:[illegible]	1
24655	HD 119637	13h 39.m3	+46° 01'	"	"	"	+7.9	01:50	[illegible]	1
24656 A	HD 123249	13h 54.m5	+26° 19'	"	"	"	+7.8	02:16	02:42	2
B		"	"	"	"	"	+7.8	02:43	03:[illegible]	2
24657	HD 136244	15h 14.m3	+60° 29'	"	"	Set 016	+7.8	03:11	03:[illegible]	[illegible]
	[0400 another wind step (I pulled the plate after [illegible]									
24658	α Oph	17h 30.m3	+12° 38'	"	"	Set 016	+7.8	14 [illegible]	14 [illegible]	1
24659	67 Oph	17h 55.m6	+52° 56'	"	"	"	+7.8	[illegible]	[illegible]	[illegible]

Dome Temp. 39°F

Focus 12.90

Dome Temp. 34°F

Transparency Conditions fair.

Ending Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	W 34	29 27	1	9.93	G8	1-1-1	KAFS near 9 start 9902 end 9930½	good
	W 318	29 45	0	9.73	F0	1-1-1	" 9 start 9932 end 9962	
		17 57	0	6.99	A0	2-2-2	KA 8x8 8 9972	fine
		+12° 55'	(mod.) 0	6.93	A0	2-2	Sol 2 " " 9	fine
				6.82	A5		— unable to find in atlas	
		52° 17'	(mod.) 0-1	7.55	A2	2-2	Sol 2 "	fine
	W 23°W	+47° 24'	(mod.) 0-1	8.04	A5	4-2	Sol 2 "	fine
		+45° 42'	"	7.62	K0	2-4	Sol 2 "	fine
		+26° 06'	0			3-	Sol 2 KA 8x8	fine
			(mod.) 0			3-3	Sol 8 KA 8x8	fair
		+65° 19'	1	9.09	K3	1-1-1	Sol 8 KAFS	V. good
							] but OK for 9 min/min	
		32° 34'	3	8.14	A5 III	2-1	Sol 2, 5+8	poor
			2					fair
							0 min + 10	

21

Date Tu/We Apr. 14/15 1959 **Observer** vdB - Hv **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24660	HD 82570	9h 27.7	+29° 19'	12"	103aO	16	11°C	20h 20m	21h 20m	PHC
24661	BD 145° 1763	9h 40.4	+45° 32'	12"			4°C	21h 35m	23h 35	PHJ
24662	HD 89686sp	10h 15.9	+44° 26'	12"	"	08	11.3°	23h 54m	00 40	PHS
24663	HD 135721	15 11.5	60 19	"	"	.016	11.4	00 54	02 32	4
24664	" 135741	15 11.6	59 56	"	"	"	11.4	02 43	04 13	
	Focus 1st OTB									

Dome Temp. 50

Status

Dome Temp.

Transparency Conditions Fine

22

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
15	1°02 W	+29°03'	1-2	10.02	G8	1+1+1	Sat 5 KAFS x 0075 -140	
11	3°05 W	+45°14	1-2	9.95	F9	1+1+1	Sat 5 KAFS 147	
46	033 W	44 06	1	8 0.	F5	2-2-2	Sat 5 KA 8x8 Sp compact	
32	0033 W	60 06	2	9.6	A8	1-1-1	Sat 2 KAFS. #9 37 counts	
13	0214 W	59 39	1-2	9.45	F5	1-2	" 2 " #9 36 "	
						4/3	" 8 A few wisps of cloud.	
							I.P.H. +4.	
							Dome Turning Cable Slipping	

23

Date Apr 15/16/59 Observer -Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 14.0	Starting Time E.S.T.	Ending Time E.S.T.
24665	HD 117845	13 27.9	59 27	I-12.5	E103a-O	.008	14.0	0042	0342
24666	" 172068-9	18 33.0	41 12	"	"	"	14.0	0358	0446
	Focus Test		OTB			"			
	1959 April 18-19		N-Li						
	About 15C visitors.		Showed α and α² Vn.						
	One RASC telescope (Mr. Jewell)								
	Lunar halo observed on leaving dome - hazy night.								

me Temp.....

cus.....

me Temp.... +51° F

Transparency Conditions .....

Strong wind from N.W. Guiding poor at high Dec.

Ending Time P.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23--	0330W	5908	1-2*	8.36	F8p	2-2-2	Set 2 KAFS *EXTINCTION #8 10 cm I	good
0-6	0030E	4114	0	(7.6)	A3?	2-2-2	" " KA 8°x8° #8 7 "	poor
						8/6	" 8 Hazy + Thin Cloud.	
							3 P.H failed.	
							Plate Moved.	

US

Date Tues April 21-22/59 Observer L-H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24667	HD. 95866	10 58.6	59 27	I-12½	E-103AO	Set .016	+6.8	20 22	00 02
24668	" 136617	15 16.6	59 53	"	"	"	7.0	00 12	01 50
24669	BD +60° 1611	15 21.9	60 16	"	"	"	7.0	02 05	04 30
	"Tr-5"		C 7B						

Dome Temp. 38°F

Focus

Dome Temp. +37°F

Transparency Conditions Good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	241W	59 04	1	9.86	G2	1-1-1	KAFS. Pacq	
[illegible]	0013W	59 36	2+	9.75	Ksp	1-1-1	" " Star Brighter than usual? OR Seeing Fantastic.	strong
[illegible]	[illegible]	60 00	2-3?	9.72	F8	1-1-1	1/2 " " #10 60 counts	
						4/3	" 8 OK 9.5 [illegible]	
							IRH +11	

27

Date Wed-Thu Apr 22-23 Observer Sc - Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24670	HD 97420	11h 07.6	+59° 41'	I-12	Ex320	Set ok .008	+12.0° C	21 25	22:10

Dome Temp. +49°F

Focus

Dome Temp.

Transparency Conditions Poor, cloud in NW

28

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	9h 42m V	59 18	2	9.3	F6	1-1	KAFS set 5 (only stars in field 0°39° E and see) Clouds 22hrs	
							3P.H. +8	
							0045 Rambaut dec. motor, Dec guiding / getting motor gave up first. Focus, Dome, Lamp motor OK.	
							Apr. 24 MC +10.9 SC -1m6.3 MTW +1m44s STW +1m40s S / SW -43 ME +5	
							Sat April 25 Cloudy with thundershowers 208 Visitors shown telescope and "Movie" "Exploring the Universe" Rec	
							Apr. 27 MC +14 SC -1m7.4s MTW +1m42s STW +1m42s S / SW 49.6 ME +6	
							Apr. 29 MC +16 SC -1m7.5s MTW +1m41s STW +1m45s S / SW -50.5 ME +5	

29

Date Apr. 29-30/59 **Observer** — Hr **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 13.7	Starting Time E.S.T.	Ending Time E.S.T.
2 4671	HD 107053	12 13.5	+33 18	1.2	[illegible]	[illegible]	6.3	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]		"			

Dome Temp. 44°F

Focus

Dome Temp.

Transparency Conditions Clearing slowly 11 P.M. E.S.T.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	5:42 W	3 = 5 E	0-0	6.82	A5	2-2-2	Set 2 KA-8°x8° Clouds #1	
						3/6	" 2	
							2 P.H. + 8.	
							Very Poor Night.	

37

Date Apr 30-May 1/59 Observer Hd - Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	I	Hour Angle Bell
24672	HD 95975	10 59.2	60 06	I-12	E1030	016	12	20 08	22 06	2	19
24673	HD 96950	11 04.7	59 26	"	"	"	12	22 14	00 34		
24674	" 136617	15 16.6	59 53	"	"	"	11.7	00 42	02 12		1.197W
24675	" 172016 SF	18.33.0	41 12	"	"	002	11.7	02 29	03 21		30°E
24676	" hp	"	"	"	"	"	11.3	03 22	03 57		
	Ha-7.7	7.7	07B								

Dome Temp.
Focus
Dome Temp.

Dome Temp. 46F
Bus 12.90
Dome Temp. 37°F

Transparency Conditions Sat. May 2-3 32

vB lectured on solar system by and demonstrated telescope to 100 visitors. Thick clouds. Some rain

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	1/19	59 45	0-1	9.85	F7	1-1-1	KAFS. Trouble with diffraction, chromatic, wild. Sing 9 Start 445 end 475	
	1/42W	49 05	0	10.08	G5	1-1-1	KAFS Sing 9 start 250 510	
	1/07W	59 37	0-1	9.75	K5p	1-1-1	" " 9 513 544	
	1/00E	41 12.5	0-1	(7.6)	A3	2-2-2	KAFS " 7 547 550	
	1/23E	"	0-1	(7.6)	A3?	2-4	" " Set 2 " 7 552 555	
						3/6	" 2	

P.H. + 8?

	MC	SC	MTW	STW	S	SW	ME
May 1.	+17	-1M8.6S	+1M54S	+1M50S	-4	-49.7	+6

33

Date Sun – Mon, May 3/4, 1959 Observer BK – HV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Angle End
24677	HD 89686 sp	10 15 9	+44 26	I-12	E103-a-O	set .008	16.0	20 21	21 41	3	.50 W
24678	HD 96093	10 59 9	+60 22	"	"	.016	15.0	21 50	23 50	4	3.15 W
24679	HD 107053	12 13 5	+33 18	"	"	.008	15.5	00 30	00 48	1	0.300 W

Dome Temp.
Room 12
Dome Temp.

Dome Temp. 54

Focus 12.90

Dome Temp.

Transparency Conditions Good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 49	50 W	44 06	0	8.2	F5	2-2-2	5.25 CA 8x8 SRUS 7 558-561	Good
3 5	5.15 W	60 00	0	0.56	F6	1-1-1	set 5 KAFS, HUGES set 9 563-593	Good
4	0300 W	32 58	0-1	6.32	A5	2-2-2	" 5 KA 8'x8° " 7 592 4 Comp to	Good
							Closed up at 1.30 because of Hrs	
							Observer - Pix	
							LPH - 4	
							MC SC MTW STW S SW ME	
						Mayh.	+19 -1M10.7S +1M55S +1M55S -6.6 -53 +11	

35

Date Tuesday May 26, 1959 **Observer** — Li **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Angle End
24680	ζ Oph	16h 31.7	-10° 22	I-12	E-103aO	1st .005	+19.0	01:47	[illegible]	2	[illegible]
	"	"	"	"	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
	"	"	"	"	"	"	"	[illegible]	[illegible]		
24681	α Oph	17h 36.3	+12° 38'	"	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
	"	"	"	"	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
	"	"	"	"	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
24682	HD 170562	18h 25.0	+17° 55'	"	"	"	"	[illegible]	[illegible]		
24683	HD 172068 cp	18h 33.0	+41° 12'	"	"	"	"	[illegible]	[illegible]		
24684	HD 179395	19h 07.3	+41° 50'	"	"	"		[illegible]	[illegible]		

Dec. buttons on hand switch do not work –
Have checked all the fuses I knew.
As noted above, the counter doesn't seem to [illegible]
4:30 Dec buttons now work – is there number [illegible]

Time Temp.....

Focus.....

Time Temp.....53° F

Transparency Conditions ..... poor until after 1:00 good from 1:30 on

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
0h 07E	-10° 30	2	2.70	C9.5 II		Int 2	Hi Sky	Bright int 5	
0h 04E	"	2	2.70	"	—	Int 5	"	2 counts int 5	
0h 01E	"	2	2.70	"	6	Int 2	"	1 count int 5	
0h 39E		2	2.14	A5 III		Int 2	NT Sky	1/4 count int 5	
0h 36E		2	"	"	—	Int 5	"	1/2 count int 5	
0h 33E		2	"	"		Int 2	"	1 count int 5	
0h 19E	+12° 56'	0	6.51	B9	2-3	Int 2	KA SKY	2 counts int 6	fair
0h 16E	+11° 13'	0	7.1	A5	2-2	Int 2	KA SKY	Alt over [illegible]	good
0h 12E	+10° 55'	0	7.11	B9	2-2-2	Int 2	KA SKY		fair

1 PH + O

May 6.	MC	SC	MTW	STW	S	SW	ME
	+21	-1M 11.8	+2M 02S	+2M	+10.5	-57.1	+2

37

Date Wed Thu May 6-7 **Observer** Se- **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24685	HD 91948	10 31.9	+60°38	I-12	E 103a0	Set .008	+23°C	22:00	22:30

21:00 Cloud Bank – West, otherwise good. lightning

38

Dome Temp. +64° F

Focus

Dome Temp.

Transparency Conditions

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 30	4 33m W	+ 60° 17	00	7.37	F8	2-2-2	KA 8x8 set: EX MTR. 632 NOT WORKING!	

Date Thursday May 7-8 Observer Ru-Li Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24686	HD 97438	$11^h 07^m.7$	+60 18	12	E103 ao	008	17.2	20 58	21:00

The observer spent 50 min. learning how to unclamp the dec. My thanks to Mr Longworth for answering my "how days it just doesn't pay to get out of bed"

me Temp. +8°F

us.....

me Temp. +48°F

Transparency Conditions.....

solid clouds 11:55

Ending Time E.S.T.	ir Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	5h 33m N	+59 57	10	9.8	A8	2-2-2	set 5 solid clouds 11:55 HINS 125 ~~KA 848~~ KAFS	
	Clamp at +60° by hand.							
	Lowers phone call at 1:00 EDT.							
							3pH+8	

41

Date Fri/Sat May 8/9 1959 **Observer** Vol B - P.K **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24687	HD108076	12h 19.9	+38° 52'	25"	103aO	008'	+13.5°C	20h 22m	22 10
24688	HD 114762	13 07.5	+18° 03'	25"	103aO	008	13.3	22h 43m	24 00
24689	HD 149353	16 59.5	-05° 56	"	"	"	13.2	00 34	02 24
24690	HD 167451	18 10.2	-13 36	"	"	"		02 30	04 00
	Focus test 0.7-13.								

Dome Temp. 52
Dus 15.39
Dome Temp.

Transparency Conditions Fine

May 8 Changed to 25" Camera 12½" was Focus 12.90 Silt 20.25 25" is Focus 15.45 Silt 23.15

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	0h 54m W	+38°33'	0-1	8.59	G0V	4+4+4	Pos 5, Se HV	weak.
[illegible]	1h 38m W	+17°42'	0	7.86	F9V	4+4+4	Pos 5 Se HV	L weak
[illegible]	40 W	-6 04	0	[illegible]	G9	4-4-4	Pos 5 Radcliffe	good.
[illegible]	36 W	-13 36	0	7.9	B2	4 4 4	Pos 5 "	Too weak
						15/10	9	focus OK
							3PH + 4	
							Dewar needed in the Dome	

N.B. This plate was probably marked 688 rather than 687. Plate 21,655 is marked [illegible]

43

Date Sat May 9-10/59 Observer Hd - Li Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24691	HD 114762	13.07.5	+18.03	I-25	103a-O	.008	15.1	22.37	(1.27) 2
	NOTE The exposures were terminated because the stars had left the slit								

NOTE: The shutters do not close when the plate has checked all the pins. My three copper line wires are just ended up closing by hand. If I had

P.S. I predict that the Bostlin will become the greatest hand ever!

Dome Temp. 50F
Focus 15.42
Dome Temp.

Transparency Conditions haze - clouds

150 visitors. Showed Leo, M3 with 74" 14", Cc.

44

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	17 41	0.0	7.86	F9V	4-4-4	Se 1+V.	Ex Inter counts about 1 in 6 min! runs 8 start 658 (at 2250)	good (Hale badly scratched)

failed to register on count in the last half hour!

ZpH + 4

[illegible] the button.
[illegible] forward, put the tube back on
[illegible] one [illegible] (hard) and finally
put a little oil on the [illegible] right Monday!

Li

	MC	SC	MTW	STW	S	SW	ME
May 11	+26	$-1^M16.1$	$+2^M27$	$+2^M10$	STP_D	-1^M04^S	+07

	MC	SC	MTW	STW	S	SW	ME
May 13	+27	-1^M19^S	$+2^M29^S$	$+2^M11^S$	STP_D	-1^M07^S	+8

45

Date Wed May 13-14/59 Observer Hd - [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24692	HD 115043	13 09.5	57 14	I-25	Σ103aO	008	+13.4	23 28	[illegible]
24693	16 Sgr	18 09.3	-20 25	"	"	"	+13.5°	2:40	[illegible]
24694	α Oph	17 30.3	+12 38	"	"	"	+13.5°	[illegible]	[illegible]
		"	"	"	"	"	+13.5	4:02	[illegible]
		"	"	"	"	"	+13.5	4:02	[illegible]
	Focus Test OTB (with 24693, 5419)								

Dome Temp. 44° F

Focus 15.39

Dome Temp. 16° F

Transparency Conditions Clearing after 11:00 – magnificent [illegible] + clouds and rain earlier in evening.

50 visitors (Engineering 3T5) Dg demonstrated telescope showed film.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	[illegible] W	+56° 55'	00	7.3	G1 V	4-4-4	MK Std. seq 8 start 681	fair
	[illegible] 44m W	-20° 24'	00	6.02	O9 II	4-4-	Set 2 MK Std seq 7 710-724	fair
		+12° 35'	0	2.14	A5 III	12	Set 2 MK Std seq 1 3 seconds	fair
		"	0	"	"	—	W 5 " " 2 seconds	
	42 W	"	0	"	"	—	W 6 " " 1 second	
						16/7		center [illegible]
							3 pH + 0	
						May 15	MC +29 / SC -1M 21.5 / MTW +2M 30S / STW +2M (1)2S / S Stopped / SW -1M 10.5S / ME +16	

Date Fri May 15-16/59 Observer L-Lo-Dg Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24675	HD 106156	12 67.8	10 37	I-25	E103A	Set .008	+67°	40 56	56	
24676	HD 144287	15h 59.9	+23° 31'	"	"	"	+69°	[illegible]	02 47	3
24677	HD 182807	19h 21.3	+24° 44'	"	"	"	+69°	[illegible]	56	

1959 May 16-17 N-L
About 175 visitors. Showed the moon.
Some days or end.

Sky closing in solid.

Dome Temp. +44°F

Focus 15.31

Dome Temp. +36°F

Transparency Conditions Some light clouds. 4°

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	[illegible] W	10° 14'	0	8.71	G8V	4-4-4	Se H.V. 7J5	[illegible]
[illegible]	[illegible] W	+25° 21'	0	7.88	G8V	4-4-4	" Very bright aurora [illegible]	[illegible]
[illegible]	0h 16 E	+24° 49'	0	6.71	F6V	4-4-4	" set 5	[illegible]
						15/10	Four Tet set 8	[illegible]
							+ 7 Hi + 8	
							Note the error in numbering these plates.	

49

Date SUN MAY 17-18 Observer La Ru Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24678	102158	11 40.3	+48 14	I-25	E-103-Ao	008	+12°C	20 43	23 27	1

Dome Temp. + 48
Focus 15.38
Dome Temp.

Transparency Conditions Cloud to South.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	$3^h 05^m$	+47 53	0	8.66	G_2V	4-4-4	Set 5 Se-HV 0806-0820 counted 4 after 20.	Check
							Clouded out	
							3 P-H. + 8	
							Sky too thick for anything else.	
							Note the error in monitoring	
							Counter stuck at 0820	
							Began to count when dome light went on.	

57

Date Mon-Tues, MAY 18/19 1959 Observer Hd — Mai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24699	η U. Ma.	13 43.6	+49 49	I-25	E-103-A	0.008	+14.5	21 22	21 23	
	"	"	"	"	"	"	"	21 24.5	21 25	
	"	"	"	"	"	"	"	21 26.5	21 27	
	"	"	"	"	"	"	"	21 29	21 31	

ome Temp. 52°
ocus 15.41
ome Temp. 52°

Transparency Conditions Very hazy

52

Tried fainter stars - hopeless.

ding Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 29		"	1	1.91	B3 V	12 Sc	2 Mk Sta atmos 4:3 comets	stary
1 25		"					5 " 2 "	stary
27		"		"	"		SeD 7.5 " 1 "	fair
31	00 48 E	+49° 28		"	"		10 " 4 "	stary.
							Haze leaving - Milky Way	
			May 20				MC +33 / SC -29.6 / MTW +2M31S / STW +2M13S / SW -1M16.9 / ME +6 / S STOPPED	
						May 22.	MC +34 / SC -33.8 / MTW +2M07S / STW +2M4S / S STPD / SW 1M20.5 / ME +10	
		MAY 22-23/1959			vd	B+Mai	Parking lot under construction. Very muddy. Some groups were cancelled.	
						Cloudy	10:30 P.M. D.S.T.	
SeD		MAY 23-24/1959	MR. Sr. Mai - 70 (men) visitors, cloudy. Lecture & telescope demonstrated.					

53

Date Sun-Mon, May 24/25 1955 **Observer** LO BK - HV **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24700	HD 140783	15 57.6	+10 [illegible]	[illegible]	103-1C	[illegible]	[illegible]	21 [illegible]	22 26	[illegible]
24701	HD 140283	15 [illegible]	-10 37	"	"	"	16.6	22 55	00 39	4
24702	HD 149165	16 22.4	48 [illegible]	"	"	"	16.5	00 53	03 37	1
	[illegible]					"				

Dome Temp. 58

Focus 5.43

Dome Temp.

Transparency Conditions Good

Delayed start because of Dec – Year – motor trouble
[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	[illegible] 17 W	9 50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] S1 HW [illegible] 895 923	[illegible]
[illegible]	[illegible]	10 51	[illegible]	[illegible]	F5	4-4-4	at 5 [illegible]	too [illegible]
[illegible]	3 01 W	48 02	[illegible]	7.57	G0	4-4-4	" 2 " #7 [illegible]	fine
						15/10	" 3 * [illegible]	under [illegible] 2 [illegible]
							3 [illegible] + 1 [illegible]	

	MC	SC	MTW	STW	S	SW	ME
May 23	+6	-40.9	+1	+15	STPD	-27.1	0.0
May 27	+7	-43.7	+9	+15	"	-33	-1

55

Date Wed. May 27-28/59 Observer Hd - Hr / Ra Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24703	HD116634	13 19.8	32 37	I-25	E1030.0	008	[illegible]	22 10.	[illegible] 16	

Home Temp. 72 F

Focus 15.57

Home Temp.

Transparency Conditions poor

5 6

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			2-1	7.55 ~~7.49~~	A2	4 1/2 15/10	KA 8x8 Start 1332 Seq 7. Set 2	fine fine

57

Date Shure May 28-29 Observer La-Mai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24704	HD 114727 5	13 07.3	16 4.0	I-25	E103Ao	set .008	26.7	21 27	[illegible]	[illegible]
24705	HD 145132	16 25.7	+6 19	I-25	[illegible]	.008	26.5°	[illegible]	[illegible]	[illegible]
24706	HD 170562	18 25.0	+17 35	I-25	E103Ao	.008	26.3°	02 52	04 00	[illegible]
	Focus Test	OTB								

Dome Temp. 73°F
Focus 15.58
Dome Temp. 64°F

Transparency Conditions Fair

58

Perfectly clear at 23:50 [illegible]
Partly cloudy at 00:10
[illegible] Sky - [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	[illegible] 16	16	0	7.76	F_2	4-4-4	K.A. 8°8° Seq 7. 1357-	only [illegible] Fair
[illegible]	L 19 [illegible]	[illegible]	0	7.57	[illegible]	4-8	KA 8°8°	Tremulous
[illegible]	1 39 W	+17 54	0	6.51	B9	4-4-4	KA. 8°8° Seq 8 1365 NEW STAR	fine
						15/10	Seq 9 Seq 7 1376-87	
							4 P.H. +0	
							NOTE - Light in visitor's eyepiece worked sporadically, wiped loose connection.	
						May 29 tel	MC +8 / SC -49.5 / MTW +7 / STW +8 / S Sep / SW -38.2 / ME -10	

ANOTHER CLOUD BANK RISING TO CLEAR [illegible]
01:15 [illegible]
01:15 CLEARING
03:05 LIGHT CLOUD
03:07 [illegible] rapidly [illegible]

59

Date Sat. May 30-31 1959 **Observer** McC – McC **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
2477	HD148816	16 26.2	[illegible]	1-[illegible]	E[illegible]	.008	[illegible]	3358	0215
	Focus Test	O.T.O.							

Dome Temp. [illegible]
Focus [illegible]
Dome Temp. 60

Transparency Conditions Hazy

180 visitors were shown α Cas, Vega and M3 by Bk, Dg, McC. – Dg demonstrated telescope.

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						15/10		
						June 1	MC +8 / SC -57 / MTW +6 / STW +15.4 / S " / SW -45.1 / ME -4	

Date Opm June 1-2/59 Observer L-VB.-SR. Julian Day

Plate No.	Object	R.A. ~~1900~~ 1950	Declination ~~1900~~ 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Zenith Dist.
24708	(M100) NGC 4321	12h30.2m	+16°30'	Newt	E103Ao			21h45m	21h55	
24709	M58 NGC 4579	12h35.1	+12°05	"	"			22h10m45s	22h25m45s	
24710	M49 NGC 4472	12h43	+8°26'	"	"			23h10m30s	23h25m30s	
24711	M60	12h41	+11°49	"	"			23h30m15s	23h45m15s	
24712	NGC 4565	12h17.8	+0°11'	"	"			00h05m30s	00h20m30s	
24713	NGC 5866	15h04	+1°48'	"	I-N	4x89		01h40m00s	0h	

Dome Temp. 58°F

Focus

Dome Temp.

Transparency Conditions

Correction to dec — 4 mins

Ending Time L.S.T.	Car Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	5 W	16°00					Following on 23 Comae	v poor
	5 W	1 55					↓	poor
	2 W	13°21						poor
	3 W	11°36						poor
	2 W	1 04						under developed
	W	1 43					Suitable for details	under developed

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Date June 2-3 June 1959 Observer VB, Hr S r Julian Day

Plate No.	Object	R.A. 1900 1950	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24714	M100 (NGC 4321)	12h 20.4m	+16° 06'	11 cm T	E103aO			21h 25m	21h [illegible]
24715	M88 (NGC 4501)	12h 29.5	+14° 42	"	"			22h 12m 10	22h [illegible]
24716	M90 (NGC 4569)	12h 36.3	+13° 26	"	"			22h 52m 20s	23h [illegible]
24717	M60 (NGC 4649)	12h 41.1	+11° 49	"	"			23h 25m	[illegible]
24718	NGC 5364	13h 53.7	+05° 15	"	"			23h 51m 00	[illegible]
24719	NGC 5566	14h 17.8	+04° 21	"	"			00h 15m 20	[illegible]
24720	NGC 5846	15h 04.4m	-14° 8'	"	IN	+10.89		[illegible]	[illegible]
24721	NGC 6822	19h 42.1	-14.53	"	"	+10.89		02h [illegible]	[illegible]

ne Temp.....

us.....

ne Temp.....

Transparency Conditions .....

Correction to clock −1 min

Ending Time E.S.T.	r Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	5	5 W +16°03'					Developed 4m Exposure E UW thinned	Fair
	36	36 W +16°37'					" 3m at 67°F thinned	Fair
	0	0 SW +18°23					Clear	Fair
	30	30 W +11°45					"	Fair
	16	16 W +5°11					"	Fair
	3	3 W +1°8					"	Fair
	4	4 W +17°45					Spectral 10s "	OV
	10	10 E +16°51					"	Cloudy
						June 3	MC +9 / SC −1M / MTW STW STOPPED / S RT'D. / SW −45 2 / ME −5	

Date Wed 3-4 June 1959 Observer VB L SC Julian Day

Plate No.	Object	R.A. ~~1900~~ 1950	Declination ~~1900~~	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24722	NGC 6333	12h 21.3	+6°22'	Mean	IN	4.23		22h 50m	23h [illegible]	
24723	NGC 6283	12h 17.9	+29°35'	"	"	"		23h 22m 30s	00h [illegible]	
24724	NGC 6822	19h 42.7	-14°33'	"	"	"		02h 04m 30s	02h 38m 00s	

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions.....

Correction to dec +3

...nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	5h 14m N	+6° 22					focussed on Div	Sm.s
	[illegible]	+29° 3+						Lightness
	5h 14 E	−14° +9					[illegible]	ok

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Date Hours 24-5 & 25 **Observer** Mr V.B. Sr **Julian Day**

Plate No.	Object	R.A. 1900 / 1950	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24725	NGC 5248	13h 35.1	+09° 08	Newt	103Ao			23h 13	[illegible]
24726	NGC 5363	13h 53.6	+05° 29'	"	"			23h 34 30	[illegible]
24727	M13 (NGC 6205)	16h 39.1	+36.33	"	"			00h 11 00	[illegible]
24728	"	"	"	"	IN	0.89		00h 43m	01h 15m
24729	NGC 6822	19h 42.1	-14° 53'	"	"	0.89		01h 46	02 47

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

Corr to Obs. +4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2 6 W	-9°59					through the Cloud Focus on 78 Vir	
	2 31 W	5°28					through the Cloud	
	2 [illegible] T	36°36					Clear Focus ζ Her	
15	2 10 W						" Focus κ Aql	
2 07	2 6 E	-14°44					"	

June 5	MC	SC	MTW	STW	S	SW	ME
	+9	-1M 4S	+2	-12.8	STP.	-5	-6

Date Fri 5-6 June 1959 **Observer** VB L Sr **Julian Day**

Plate No.	Object	R.A. 1900 1950	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24730	NGC 4725	12h48.1	+25°46	12wt	103Ao			21h44m30	21h55m
24731	NGC 4826	12h56.3	+21°57	"	"			22h06m00	22h10m30
24732	NGC 4571	12h34.3	+14°28	"	"			22h28m30	22h40m30
24733	NGC 4567/68	12h34.5	+11°32	"	"			22h49m30	23h00m30
24734	NGC 4438	12h25.3	+13°17	"	"			23h09m15	23h20m15
24735*	NGC 6720	18h52.0	+32°58	"	"			23h	
	Sat. 1959	June 6-7		N, La, La					
	Showed	α CVn to first group; M3 to second group (low wind)							
		about 20c winter							
			apparently cut off						

ome Temp.....
ocus.....
ome Temp.....

Transparency Conditions Thin cloud

Corr. to dec. +6
Corr. to R.A

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	5W	+25°50					focus-edge 31 Cepheus	Fair
	01W	+21°57						Sat
	44W	+14°33						Sat
	03W	+11°34						Sat
	33W	+13°21						Sat

Note: No plate with this number

Date Sat June 6-7/50 Observer Hd & L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24736	ζ Aql A	19 03.6	+13 45	I-25	S103a0	008		02 28 45	02 29 15
								02 30	02 31
								02 32	02 35

Dome Temp.....
Focus 15.45.
Dome Temp.....

Transparency Conditions .....

Hd & L spent 3½ hrs trying to discover why spectrograph so slow. Nothing found very wrong, we think, but some things puzzling.

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2.25			0-1	2.99	A0	no	for exposure test	[illegible]
2.31						comp		fine
2.35	(.) 14m					p		[illegible]

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Date Sun June 7-8/59 Observer (Hd) Mac - H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	H.
24737	31 COM	12 46.8	+28 05	I-25	E1030	.008	23.0°C	20 46	20 58	
	"			"		"	23.0°C	20 58	21 06	
24738	HD 122080 n f	13 54.5	+26 18	I-25	"	"	"	21 18	22 02	
24739	HD 122080 s f	—	—	—	—	—	—	22 05	22 05	
24740	HD 148832	16 25.7	+15 19	I-25	"	"		00 15	01 35	
24741	HD 157702	17 19.7	+18 56	"	"	"	22.9°C	01 45	02 59	
	7 m 7 m	09B								

Dome Temp. 69°F
Focus 15.53
Dome Temp. +66°F

Transparency Conditions good
23:30 light haze

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 51	1N54m	+27 43	2	5.7	G0III	6-6	Set 2 MK Std.	
21 04	1 00W	+27 43	2	"		6-6	Set 8 "	
21 [illegible]	0 50W	+25 57	2	~~7.15~~ 7.0	A5	4-4	Set 2 KA 8°×8°	
22 05	53W	+25 57	2-3	8.0		4.5-3	Set 8 KA 8°×8° Short slit.	
21 55	52W	+15 11	1-2	7.51	A3	4-4-4	Set 2 KA 8°×8° P.H.1 - spotted with white & with light	
22 59	2 23W	+18 51	0-1	7.48	A0	4-4-4	" 8 "	
						15/10	" 5	
							3 P.H.+ in Trig.	
							H = 49.	
							Third adjustment made in Fork.	
							Tests 5 [illegible] or better	
							[illegible]	
					June 8		MC +10 / SC -1m9.8 / MTW & STW STOPPED / SW -15.3 / ME +5 / S STPD	

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Date Mon. June 8-9/59 Observer MR ha - Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
840-91	β Com	13:10	+28 04	5000	- 3600	.20		21:10	
841-91	Jupiter	15:30	-17 53	scan		.05	6-5?	22:48	see weed
"	"	"	"	"		100	4-1?	-	
"	Jup. satellite	"	"	"		"	5-7	-	

Dome Temp. 80° F

Focus

Dome Temp.

Transparency Conditions fair – hazy

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				4.86	G0 V	30"	4A/sec 2"/min ; a) cable broke b) Brum stopped. Fixed bell	
				–	–	slit	4500A – 3800 . 1A/sec 2"/min & reverse	
				–	–	slit	set on 4248 & scan with δ slow motion; repeat at 4147	
				–	–	"	" " " ; repeat on 4147. Stopped o/c fire	
							3 PH in Ring.	
							H. M.	
							Clock after Midnight	
							Did not Estimate for this	

Date Tues June 9-10/59 Observer Hal McC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24742.	Jupiter	*		I-25	E103aO	008		about 2 min	
								22.07	22 12
24743	α CrB	15 37.0 1960	26 51	"	"	"		23 05	23 08½
								23 10	23 12½
								23 13½	
THURS.	JUNE 11, 1959								
24743 T_1	Fe Comp. Spect.			I-25	II A O	.008	26.6		
	Fe Comp. Spect.			I-25	II A O	.008			
	Fe Comp. Spect			I-25	II A O	.008			
24743 T_2	Fe Comp. Spect.			"	E103aO	.008			
	Fe Comp. Spect.			"	"	.008			
	Fe Comp. Spect.			"	"	.008			
24743 T_3	"			"	"	"			
	"			"	"	"			

Dome Temp.
Focus 15.65
Dome Temp.

Transparency Conditions: Extremely poor. Haze + clouds. McC practising

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 min		full length of slit				slit	set 2 3 counts at zero 5.	
12 12	—	exposure S(?) trip band				none	set 5. 6 " " " "	very weak
33 [illegible]			1	2.23	AO V	12	set 1 Mixed? zero 5 begin 1555 1560.	
13 [illegible]						—	1560	
						—	Neither clock only working for Ex mts. " 1583	
						—	" 1584	
							1573	
	10(?)	15.60				June 10	MC +10, SC -11.5, MTW +32, STW -24.5, SW -30.2, ME -4.	
						12	SET 1 SPOTTED TWICE	
						24	" 5	
						48	" 9	
						3	SET 1	
		MC +9 (5 Tp.), SC -14.6, MTW +26, STW -43.9, SW -28.2, ME -6				6	" 5	
	June 12					12	" 9	
						3	SET 1	
						6	" 5 } NEGLECT SPOTS. 2 P.H. +0	
						12	" 9	

Date Fri.-Sat June 12/13 1959 **Observer** D.q **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24744	HD 149105	16^h 27.4	+48° 11'	I-25	E103aO	.008	24°.8C.	00 40	02 20
24745	HD 187923	19^h 47.4	+11° 23'	"	"	"	24°.5C.	02 35	03 05

ome Temp. 66°F
ocus 15.57
ome Temp. 61°F.

Transparency Conditions Clear
(Cloudy and [illegible] at beginning of night)

Ending Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	[illegible]57" E W	+48° 01'	0	7.57	G0 I	4-4-4	Se HV	weak
[illegible]	[illegible]10" E W	+11° 31'	0	6.31	G2 I	4-4-4	set 5 " "	moderate
						5/10	set 9 Focus test	[illegible]
							4 P.H. +8	

Date Sat-Sun 13/14 Jun 1959 **Observer** Hd McC - Mai **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24745	Jupiter			I-25	E103a0	.007	16.0	22 31 ½	22 41 ½
	"			"	"	"		22 42 [illegible]	22 49 [illegible]
	"			"	"	"		22 [illegible]	22 54 15
24747	"			"	"	"		22 57 [illegible]	22 [illegible]
	"			"	"	"		22 57 38	23 02 [illegible]
24748	67 OPH	17 55.6	+2.56	"	"	"	+16.2	23 [illegible]	23 54
								23 56	00 01 ½
								00 [illegible]	00 [illegible]
24749	HD 167838	18 11.9	-15 28	"	"	"	+16.[illegible]	00 24	00 [illegible]
24750	θ LYR.	19 12.9	+37 57	"	"	"	+16.[illegible]	01 14	01 [illegible]
	θ LYR.	19 12.9	+37 57	"	"	"	+16.[illegible]	02 31	02 42
24751	HD 192603	20 09.7	+31 56	"	"	"	16.0°C	02 56	03 42
	FOCUS TEST	[illegible]							

Obviously incorrect stationary!

θ Lyr - KO II

Spec. - [illegible]

MK 1940 [illegible]

ne Temp. 55°
us 15.43
ne Temp. 45°F

Transparency Conditions 2nd HALF - CLEAR POOR SEEING

1st McC, 150 visitors. Showed 4 with 74" 82 Mai & Kelli Miller. between clouds, Everybody saw.

Ending Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS				Quality
22		Full length of slit					Set 2	center of disk	Sens 4	Counts 1601	
22		Long slit				12	Set 6	"	" 4	1626	
22		"	"			12	Set 9	"	" 4	1634	
22		"	"			12	Set 2	"	" 4	1640	
23		"	"			12	Set #8	"	" 4	1640	
23		+2 54	0	3.9	B5	12	Set 1	MK STD	" 4	3 counts.	
		"				—	Set 5	" "	" 4	1659 2 counts	
	40 E	"				—	Set 9	" "	" 4	1662 1 count	
	50 W	-15 28		6.4	B5Ia	4-4-4	Set 2.46	" "	Sens 7	8 counts	
	2 YW	+37 01		4.4	B7Ia	4-4-4	Set 1	" "	" 5	6 counts	
	37 W	+13		4.46	B7Ia	12	Set 5	" "		1670 1 counts	
	2 W	+2		5.7	B1Ia	4-4-4	Set 2	" "	Sens 6	1674 2 counts	
						15/10	Set 8				

~~Plate 2475 apparently Taken. Then the 8 Cons~~

B.P.H. + 4

OBVIOUSLY INCORRECT STATEMENT

~~Plate with. [illegible] not taken.~~

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Date Sun June 14-15 59 Observer Hu-L-Hv Julian Day

Plate No.	Object (see main file)	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24752	Satellite 4	1959 15.27.2	1959 -17 44	I-25	E-103AO	long slit 5 set .008 long slit	17.0	21 32	22 34
	4 Lat-45 N	"	"	"	"			22 ~~28~~ 3 15	22 ~~29~~ 3 2
	4 N Trop. Band	"	"	"	"			22 42	22 43
	4 " " "	"	"	"	"			22 44 30	22 46 0
	4 " " "	"	"	"	"			22 47 25	22 48 0
24753	4 Equator	"	"	"	E-11 AO			22 50 20	22 53 30
	4 N. Trop Band	"	"	"	"			22 55 40	22 58 53
	4 " " "	"	"	"	"			23 00 00	23 02 0
	4 Lat 50 N	"	"	"	"			23 03 45	23 0[illegible] 4[illegible]
	h Booth's	13 52.8	+18 36	"	"			23 19 24	[illegible] 23 20
	" " 5	"	"	"	"			23 24 10	23 3[illegible] 11
24754	HD 157258	17 17.1	32 47	"	E-103AO	"	16.4	23 45	0[illegible] 35
24755	⊖ Lyr	19 12.9	37 57	"	"	"		[illegible] 16	[illegible]
	"							[illegible] 6	[illegible] 52
24756	K Aql	19 31.5	-07 15	"		"	16.8	01 18	01 32
	"							01 32 30	01 [illegible]

Transparency Conditions

me Temp. 58°F
cus 15.46
me Temp.

Ending Time E.S.T.	r Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
22 3+	20m	-17 47					Set 1	Cy Orb	Seus 4 1693-1702.	
22 [illegible]							Set 3		6 counts	
22 4[illegible]							Set 5		6 counts	fine
22 4[illegible]							Set 7		9 counts	
22 [illegible]						12⁵	Set 10		9 counts	
22 5[illegible]							Set 0		18 counts	
22 [illegible]							Set 2	This plate in	18 counts	
23 0[illegible]							Set 4	cardboard	12 counts	
23 [illegible]	52 W					12⁵	Set 7	box. To	12 counts	
[illegible]					G0 V	2.69	Set 9	be [illegible] ped	8 counts	
[illegible]					"	"	Set 11	5 min in DIY	12 counts	
[illegible]	27W	32 42	1	6.83	A0	4-4-4	Set 5	at 70°F.	Seu 7 814-	
[illegible]	37E			4.46	K0 II	6-6	" 2	MISSd	Seus 4 3 counts.	
[illegible]						12	" 8	"	1½ "	
[illegible]	50E	-0702	0	5.04	B0 III	4-4-4	" 2	"	" 5 6½ "	
[illegible]						12	" 8	"	3 "	

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Date June 14/15/59 Cont'd Observer — Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24757	HD 192422	20 09.7	38 28	I-25	E103a-O	.008	16.4	01 52	03 28	1
	Dom Not		07B							

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
032	20 30 W	3836	00	6·9	B 0.5 Ib	4-4-4	Set 2 MK Std. Sens #7 10 mt	good
						15/10	" 8	
							1 P.H. in Prog.	
						June 15	MC +8 / SC -17.2 / MTW STOPPED / STW STOPPED / SW STPD / ME -8.	

Date Thur June 16-17/59 Observer Mai Ito — L.O. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24758	49 LIB	15 54.7	-16 14	I-25	E103aO	0008	16.8C	21 02	21 22
24759	Moon				E II aO			21 27	21 28½
	"							21 29	21 30
	JUPITER LAT. 30N							21 35	21 39
	"							21 [illegible]	21 43
	24 N. TROPO NO							21 [illegible]	21 47
	" " "							21 49	21 51

Photometer reading 21, using counter - Short [illegible]. Time for 5 counts

Lat (cor)	N LAT 80	02m 21s.16							
	N " 60 (found band)	01m 32s.70							
	N " 30	01m 26.95							
	N 10	01m 42.01							
	EQUATOR	01 32.485							
	S LAT 10	01 34.02							
	S LAT 30	01 [illegible].36							
	S LAT 60	02 01.01							
	S LAT 80	02 [illegible] for 3 counts							

Dome Temp.....
Focus.....
Dome Temp.....

Transparency Conditions .....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS					Quality
[illegible]	16 E	-16 25	1	6.00	F8V	4-4-4	Sel 2	Se-HV	Sens 6	1927	1912	
[illegible]							Sel 0	alt of moon 33°40'	Sens 4	1904	18 cm	1
[illegible]							Sel 1½		"	1923	12 cm	2
[illegible]							Sel 4		"	1936	18 cm	3
[illegible]							" 5½	mean alt of Jup. 28°17'	"	1941	12 cm	4
[illegible]							" 7			1968	18"	5
[illegible]							" 8½			1987	12"	6
[illegible]						12 cm	" 11					

Tried for HD 60821 but couldn't find in guiding eyepiece. Tried a very bright star in vicinity, only a large record. Finally found Gerry: not collimated. Made adjustments. Still didn't look quite right. By now, sky cloudy. Closed up 01:05 Mar, 60.

P.S. Spotter faulty. Won't stop. 1 pt in freq.
24759 probably overspotted

Cont'd

Date Tues. June 16-17/59 Observer Mai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24759F	Focus test			I-25	E 103a O	008				2
24759T	Spots only			"	II aO	"	9 minutes spotting			

June 18 & 19 Cass. Secondary re-aluminized (also the 19-inch primary)

Apparently the diminished speed of the spectrograph (by about 1 mag) which has developed over the past few months was due to a yellowish discoloration which was not too apparent by casual inspection but which showed as an uneven mottling on an

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
This is the other half of the plate used for 24759. They were developed together.							
					June 19	MC +8 / SC -17.7 / MTW STOPPED / STW STOPPED / SW STPD. / ME -4.	
extra-focal image of a bright star made at the position of the Wollaston with the spectrograph optics removed.							
L says the pattern of this plate is not unlike the pattern of the remaining bromoil coat under the albumen.							
						Hd.	

91

Date Fri June 19-20 Observer MR. Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
~~24160~~										

Dome Temp. 63°F

Focus

Dome Temp.

92

Transparency Conditions

Sat. June 20 — MR, La Dg KM
150 visitors
showed ♂ C Vu through
thick haze & closed u/s

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							Jupiter ♃.	
							Tried setting on a number of stars repeatedly	
							Though the sky was so cloudy, tests with the sky brightness meter seem to indicate that the new coat on the mirror has improved efficiency by about 1 mag — not certain.	
					June 23		MC SC MTW STW SW ME +8 -18.8 -4 -2.5 -3.2 0.0	

93

Date 1959 June 22/23 Mo-Tu Observer MR-La/HV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
842-92	Jupiter	15h 24m.4	-17° 37'	various	λs	84.	see record	21:15 ~	22:38
~~843-93~~	~~λ Sgr~~	~~15h 44m.7~~	~~07° 26'~~	~~4260~~	~~4540~~	~~20~~		~~23:07~~	
843-92	ι Her	17 38.3	+46 02	4260	4540	set 20	4-7	23:35	
844-92	67 Oph	17 58.6	+02 56	"	"	"	5-3	23:50	
845-92	γ Oph	17 45.9	+02 43	4260	4540	"	4-7	24.05	
	"	"	"	"	"	"	5-3	24:20	
24760	HD 172068 np	18 33.0	+112	I-25	E103a-0	.008	+18.5°	01 32	03 22
	From Pl. 0713						+16*		

* Target [illegible] Pl. [illegible]

Dome Temp.
Focus 15.46
Dome Temp.

Transparency Conditions ~~[illegible]~~ good

Found Guiding Eyepiece Mangled. Fixed it. I think [illegible]
Seeing Poor
Telescope Unsteady; windy.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 35			~~3.74~~	~~3.7~~	~~A2~~		comparison of 24 & satellite in 5 λ's	
				~~3.74~~	~~A2~~			
		+46° 01′	6″	3.68	B3V	30″	HA/sec 2″/min List A	
		+02° 56′	"	4.00	B5Ib	"	"	
		02° 42′	"	3.76	A0V	"	" List D	
	56	"	"	"	"	"		
22	33 W	41 15	00	7.6	A3	4-4-4	Set. 2 KA 8° × 8° # 2 2147 32 [illegible] 2181 [illegible]	FINE
						15/10	" 8	

LPH on Fri.

	MC	SC	MTW	STW	SW	ME
June 24	+9	-17.9	+2	-2.2	-6.7	-5

95

Date Fri Jun 26-27 1959 Observer Hd / DH — Dg Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24761	HD 157255	17h 17.1m	+32° 47'	I-25	E103a-O	.008	25.7°C	22 22	23 08
24762	HD 168757	18 17.3	+25° 01	I-25	E103a-O	.008	26.7	23 22	00 08
24763	HD 177648	19h 02.5	+23° 11	"	"	"	25.8°C	00 14	01 14
24764	HD 192044	20 07.8	+26° 11	"	"	"	25.9°C	01 20	01 14
24765	HD 192445	20h 09.8	+26° 07	"	"	"	25.9°C	01 42	[illegible]
24766	HD 192369	20h 18.9	+23° [illegible]	"	"	"	[illegible]	01 18	[illegible]

Dome Temp. 76 F

Focus 15.58

Dome Temp. 70° F

Transparency Conditions Poor

Haze and clouds at sunset then clearing

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	[illegible] E	+32° 43'	1-2	6.93	A0	4-4-4	KA 9° c 3° Haze X-mtr sens 7 2238 - 2250	fair
[illegible]	[illegible] E	+25 00	1-2	6.9	B5e	4-4-4	Ee Prog Haze Sen 7 2253 - [illegible]	fair
[illegible]	[illegible]	+21° 15'	2	7.5	B3e	4-4-4	" " some clouds Sens 7 2270 - [illegible]	weak, fading
[illegible]	[illegible]	+20° 22'	1	5.9	B8ne	4-4-4	" Sens. 6 2288 - [illegible]	fair, fading
[illegible]	[illegible]	+36° 12'	1	7.1	B9ne	4-4-4	" " Sens. 7 2294 - [illegible]	good, [illegible]
[illegible]	[illegible]	+12° 13'	1	[illegible]	B8ne	4-4-4	VF " scattered clouds Sens 7 [illegible] - [illegible]	[illegible]
						7/10	[illegible] Fair to Fair	UNC
							∴ P.H + 0	
							[illegible]	
							Sat Jun 27-77 vB - Mc - MCE demonstrated the [illegible]	
							To show [illegible] visitors. Tog. vB returns will shine on the	
							screen system.	
							Turned heat on mirror - MCE	

Date June 28-29 1959 Observer Lu-Mai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
		16 06.0	17 10						
24767	HD 145001	16 03.6	17 19	I-25	E103a-o	008	30°	22:00	22:15
	It turned out to be part of a double star the plate is of the brighter, most southern star.								
		16 03.4	39 16						
24768	HD 144579	16 01.5	39 24	I-25	E103a-o	008	30°	22:25	23:00
		12.1	36						
24769	HD 156110	17 10.6	45 30	I-25	E103a-o	008	30°	23:15	24:00
~~24770~~	~~HD 175263~~	~~18 52.3~~	~~59 53~~	~~I-25~~	~~E103a-o~~	~~008~~			

Dme Temp. 80°

Focus 15.74 - .09

Dme Temp.

Transparency Conditions Poor - Good after 22:00 78

00:15 Broken cloud. Lightning

01:35 Repeat

Ending Time E.S.T.	Hr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	018 N	17 08		6.1	64	4-4-4	counts 1321 - 2335 - 15 counts Lond. - 7 - 57A Std Vel Stars. The first two stars were taken from the Book marked KHFS - Lat Std Vel. Stars	
[illegible]	05 N	39 15	0	7.2	6[illegible]	4-4-4	2340 - 2380 40 counts Lond. 8 ~~OB~~ Std. Vel Stars	
[illegible]	[illegible] W	05 24	1	7.5	[illegible]	4-4	2394 - [illegible] 40 counts Lond 9 B Type Std Vel Stars.	
							1 P.H. - frig.	
							Note: The wrap rotor was not properly balanced	

Tues - Wed

Date 30th June / 1st July **Observer** S; L; Sr **Julian Day**

Plate No.	Object	R.A. ~~1900~~ 1955	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24770	NGC 6254	16h 54.8	-04° 03	Newt	103AO			22h 25m 25s	22h 3
24771	NGC 5897	15h 14.9	-20° 50	"	"			22h 35m 40s	22h 40m
24772	NGC 6356	17h 21.0	-17° 46	"	"			22h 49m 5s	22h 51m
24773	NGC 6402	17h 33.3	-03° 13	"				23h 03m 45s	23h 15m
24774	NGC 6356	17h 21.0	-17° 46	"	"			23h 25m 50s	23h 30m
24775	NGC 6093	16h 14.4	-22° 53	"	"			23h 39m 15s	23h [illegible]
~~24776~~	~~NGC 6356~~	~~17h 21.0~~	~~-17° 46~~					~~[illegible]~~	~~[illegible]~~
24776	NGC 6838	19h 51.5	+18° 39	"	"			24h 14m 25s	24h [illegible]
24777	NGC 6712	18h 50.6	-08° 47	"	"			00h 03m 30s	00h 15m
24778	6356	17h 21.0	-17° 46	"				00h 18m [illegible]	00h 26m
24779	NGC 6402	17h 33.3	-03° 13	"	"			00h 29m 30s	00h [illegible]
24780	NGC 6356	17h 21.0	-17° 46	"	"			00h 41m 45s	00h 51m 5s
24781	6838	19h 51.5	+18° 39	"	"			01h 17m 50s	01h 22m 10s
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	"	"			~~[illegible]~~	~~[illegible]~~

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions.....

Correction to clock

Ending Time EST	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	[illegible] 09 E						Focus [illegible] 30 Cph	
[illegible]	[illegible] 45 W						Light clouds	
[illegible]	[illegible] 35 E						[illegible] exposure	
[illegible]	[illegible] E	-3 15					Focus [illegible] 270 ph	
[illegible]	[illegible] W	-17 47						
[illegible]	[illegible] W	-22 55						
[illegible]	30 W							
[illegible]	[illegible] W	-8 47					[illegible] clouds	
[illegible]	[illegible] W	-17 47						
[illegible]	[illegible] W	-3 15						
[illegible]	[illegible] W	-17 48						
[illegible]	10 E	+12 37					Quick clouds [illegible]	

MC	SC	MTN STN	SW	SC	MC
+8	-14.4	STOPPED	STP.	STP.	-8

Julyx

[illegible] July 1-2 [illegible]

Date Thurs - Fri July 2-3 1959 Observer S. L. McC Julian Day

Plate No.	Object	R.A. ~~1900~~ 1955	Declination ~~1900~~ 1955	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24782	NGC 5904	15 16.2	+02 15	Naut	103a-o			21 28 37	21 31 [illegible]
24783	NGC 5634	14 27.3	-05 46	"	"			21 34 36	21 4[illegible]
24784	NGC 5897	15 14.9	-20 50	"	"			21 52 36	22 [illegible]
24785	NGC 6402	17 37.3	-03 13	"	"			22 ~~15~~ 08 1[illegible]	22 [illegible]
24786	NGC 6254	16 54.8	-04 03	"	"			22 30 39	22 34 [illegible]
~~24787~~	~~NGC 6266~~	~~16 54.4~~	~~-30 04~~					~~22 37 15~~	~~22 41~~
24787	NGC 6266	17 25.4	-05 02					22 [illegible]	22 4[illegible]
24788	NGC 6356	17 21.0	-17 46					22 [illegible]	[illegible]
24789	NGC 6535	18 01.6	-00 18					23 [illegible]	[illegible]
24790	IC 1276	18 08.0	-07 14					23 [illegible]	[illegible]
24791	NGC 6356	17 21.0	-17 46					23 [illegible]	[illegible]
24792	NGC 6293	16 14.4	-32 53					00 01 12	[illegible]
24793	NGC 6402	17 35.2	-03 13					[illegible]	[illegible]
24794	IC 1296	18 08.0	-07 14					00 [illegible]	[illegible]
24795	NGC 6544	18 [illegible]	-25 01					01 14 [illegible]	[illegible]

OVER

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions Perfect

Side of plate holder covered with tape to prevent light streaking

Ending Time E.S.T	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	3 W						focused on α Serpentis	
	45 W							
	30 W							
	30 E						~~foc on~~	
	30 W						foc on 30 Ophiuchi	
	15 E							
	15 W							
	45 E							
	45 W							
	1 W							
	1 W							
	1 W						foc on 21 H Ophiuchi	
	1 W							
	1 W							

Date July 2-3 1959 Observer S. L. McC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24796	NGC 6626	18 21.8	-24 51	11 cm	103a-J			01 33 43	01 41 4
24797	NGC 6656	18 30.6	-23 58	"	"			01 49 12	01 52 12
24798	NGC 6717	18 52.4	-22 40	"	"			02 05 38	02 11
24799	NGC 6934	20 31.9	+07 15					[illegible]	[illegible]
"	KA 61	19 01.2	+30 04					[illegible]	[illegible]
24800	NGC 6938	19 31.5	+19 39					[illegible]	[illegible]
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~						
24801	NGC 6981	20 51.0	-12 43					[illegible]	[illegible]
24802	NGC 7089	21 31.2	-01 02					[illegible]	[illegible]

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	44 W							
	44 W							
	49 W							
	39 W							
	13 W							
	41 W						RA motor [illegible] for star [illegible]	
	1 [illegible] W							
	23 W						Twenty [illegible]	
							Best night for transparency	
							[illegible] 145-44	
						Only 3	P.C. / P3 — S.C. / -1.34 — M+W / STPD — S+W / STPD — S.W. / STPD — S.O. / STPD — ME / -10	

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(Friday / Saturday)

OH watched + helped

Date 3-4 July 1959 **Observer** S, H.C, Sr **Julian Day**

Plate No.	Object	R.A. ~~1900~~ 1955	Declination ~~1900~~	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24803	NGC 5104	15 16.2	+02 15	Newt	103aO			21h 22m 10s	21h 24m 15s
24804	NGC 6218	16 44.9	-01 53	"	"			21h 28m 25s	21 30 25
24805	NGC 6254	16 54.8	-04 03	"	"			21h 33m 55s	21 35 55
24806	NGC 5634	14 27.3	-05 46	"	"			21h 39 50	21h 53 50
24807	NGC 5897	15 14.9	-20 50	"	"			22h 00 00	22h 10 00
24808	NGC 6402	17 35.3	-03 13	"	"			22h 18 40	22h 32 40
24809	NGC 6356	17 21.0	-17 46	"	"			23 53 00	00h 01 [illegible]
24810	IC 1276	18 08.0	-07 14	"	"			00h 10 40	00h 12 30
24811	IC 1276	18 08.0	-07 14	"	"			00h 16 10	00h 40 10
24812	NGC 6356	17 21.0	-17 46	"	"			00h 50 40	[illegible]
24813	NGC 6402	17 35.3	-03 13	"	"			01h 02 25	01h 16 25
24814	NGC 6544	18 04.6	-25 01	"	"			01h 28 00	01h 42 00
24815	NGC 6626	18 21.8	-24 54	"	"			01h 47 30	01h 55 30
24816	NGC 6656	18 33.6	-23 58	"	"			02h 00 45	02h [illegible] 45
24817	NGC 6717	18 52.4	-22 47	"	"			02h 09 55	02h [illegible] 55
24818	NGC 6712	18 50.6	-08 47	"	"			02h 30 00	02h 35 00

ome Temp.....
ocus.....
ome Temp.....

Transparency Conditions [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	25 E	+02 12					focussed on α Ser	
	46 E							
	51 E							
	05 W							
	23 W							
	35 E						focussed on 27 4 Cap	
	07 W						dec. would not stop moving — emergency stop *	
	32 W	(plate 24810 is numbered 24809 a)					focussed on 60 Ser	
	06 W						Fumbling to [illegible] instrument at [illegible]	
	05 W							
	07 W						* Pulled the tube South with a rope and moved it North with the meter.	
	05 W							
	59 W							
	59 W							
	00 W							
	14 W							

107

DH watched

Date 3-4 July cont Observer S. H. S. Julian Day

Plate No.	Object	R.A. ~~1900~~ 1955	Declination ~~1900~~	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24819	NGC 6934	20 31.9	+07 15	Newt	103aO			02h 42 30	02h 54 30	
24820	NGC 6838	19 51.5	+18 39	"	"			02h 58 30	03h 05m 02 50	
24821	" 7089	21 31.2	-01 02	"	"			03 12 02	03 12 32	

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 49W							
01 37W							
00 08W						Haze in southwest all night	

109

Date July 4-5 1959 Observer La - La Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
20522	H.D. 170711	18h 35.9	-05° 51'	1-26	E 123a	012	26.0°C	22h 14m	00h 55m	
24523	J Cyg	19h 41.9	44° 53'	"	"	008	26.0°C	1 min		
"	"	"	"	"	"	"	"	1 min 50 sec	51 h m	
"	"	"	"	"	"	"	"	2 min 30 sec	01 h 18 m	
24524	J Cyg	20h 18.6	39° 56'	"	"	"	"	01 min 36 sec	→ 01 36.5	
"	"	"	"	"	"	"	"	45 sec		
"	"	"	"	"	"	"	"	1 min		
24526	H.D. 190603	20h 00.7	31° 16'	"	"	"	"	01h 47m	02h 10m	
24526	H.D. 207273	21h 18.6	40° 40'	"	"	"	26.0°C	02h 20m	03h 50	

Dome Temp. 70 F.
Focus 15.58 ✓
Dome Temp.

Transparency Conditions for first half - good 03:40 - 24:00 Very Good 00:00 - 01:45 Very Good 01:45 - 03:40

About 170 vectors. Observed by Cornelius N. L. a. L

110

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	h m 0 48 W	-05° 31'	0	7.3	B5	4-3-	2469-2476 secs 7 - Radcliffe OB Stars Rev !!	G.
		45° 02'	0	2.97	B9.5III		1 count secs 4 MK Stds - Clouds heavy	
		"	"	"	"		2 counts exposure taken	
	h m 0 09 E	"	"	"	"	12 sec	3 counts between clouds	
		40° 07'	0	2.32	F8Ib		1 second secs 4 " "	
							2 counts	
						12 sec	3 counts	
		32° 07'	0	5.7	B1.5Ia	4-4-4	1 1/2 counts secs 6 " " cloud "	
		40° 59'	0	6.5	A2Ib	4-4-	2503-2514 secs 7 " Clouds "	
		Focus Test	15/10				set 7.5 " neglect set 9 "	
	Defs	MC +7	SC -9.3	MPW -3	SPW +6.5	SW +2.1	ME 0.0	

4 P H in Frig

The clamp that secures the plate holder in place is broken and impossible to turn without a good deal of effort

(Monday / Tuesday)

Date 6-7th July 1959 **Observer** La & Sr **Julian Day**

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~ 1960	Inst.	Emulsion	Slit	Temp. Sens.	Starting Time E.S.T.	Ending Time E.S.T.	H.
846-93	L Ser	15 39.8	+20 09	HΔ	x2	.020	6/7	21 40		
847-93	L Her	16 18.6	+46 24	"	x4	"	5/3	22		
848-93	α Oph	17 33.1	+12 36	"	x4	"	4/4	22h39	23h05	
849-93	γ Oph	17 45.8	+02 43	"	x2	"	5/2	23h08	23h21	
850-93	67 Oph	17 58.6	+07 36	"	x4	"	5/3	23h25	23h39	
851-93	39 Dra	18 23.4	+58 47	"	x3	"	6/6	23h47	00h04	
852-93	α Lyr	18 35.6	+38 44	"	x3	"	3/4	00h10	00h32	
853-93	γ Lyr	18 57.4	+32 36	"	x2	"	4/6	00h36	00h46	
854-93	L Aql	19 34.6	-01 23	"	x2	"	5/4	00h50	00h57	
855-93	κ Aql	19 34.7	-07 07	"	x2	"	5/5	01h03	01 11	
856-93	δ Cyg	19 43.7	+45 02	"	x2	"	4/5	01h20	01 27	
857-93	HD 190603	20 03.1	+32 06	"	x2	"	6/5	01h34	01h42	
858-93	δ Del	20 37.8	+15 47	"	x2	"	5/3	01h47	02h01	
859-93	α Cyg	20 40.0	+44 68	"	x2	"	4/3	02h06	02 15	
860-93	λ Cyg	20 45.8	+36 20	"	x2	"	5/4	02h20	02 26	

Dome Temp. 67°F (start of night)

Focus

Dome Temp. 60°F

Transparency Conditions good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. hole	REMARKS	Quality
		+20 13				30"	4260-4540 see finder field & reverse 1Å/sec - 2"/min: Cat D	
			6"	3.73		"	"	
23h05			"	2.14		"	"	
23h21		+02 43	"	3.76		"	"	
23h39		+02 55	"	4.00		"		
00h04		+58 44	"	4.85		"		
00h32		+38 43	10"	0.04		"		
[illegible]		+32 35	6"	3.30		"		
[illegible]			"	4.28		"		
00h50		-07 08	"	5.04		"		
[illegible]		+45 02	"	2.97		"		
01h42			4"	3.69		"		
02h01			5"	3.86		"		
[illegible]		+45 08	5"	1.33		"		
[illegible]				4.47		"		

113 (Monday / Tuesday)

Date 6-7th July 1959 Observer La & Sr Julian Day

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~	Inst.	Emulsion	Slit	Temp. Sens	Starting Time E.S.T.	Ending Time E.S.T.	P.F
861-93	HD 199478	20 54.4	+47 16	Hγ	x2	.020	5/7	02 34	02 42	
862-93	σ Cyg	21 15.9	+39 14	"	x2		5/3	02 49	02 56	
863-93	9 Cep	21 36.8	+61 54	"			5/6	03 04	03 17	

Dome Temp.

Focus

Dome Temp.

Transparency Conditions: still good 114

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	~~Comp.~~ Comp. of Wold	REMARKS	Quality
2 42			6"	5.76	B8Ia	30"		
2 56			"	4.28	B9Ia	"		
3 17		+61 53	"	5.76	B2Ia	"	Sky getting bright	

115

Tues/Wed

Date 7-8 July 1959 **Observer** McC - LO **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.A.	Prism Angle Incl
24827	HD 164674	$17^h 55^m.3$	+4° 22′	I-25	E1050-0	.008	24.8	[illegible]	21 40	1	[illegible]
24828	HD 179075	19 07.3	+41 50	"	"	"	"	23 17	24 30	[illegible]	[illegible]
[illegible]29	HD 172[illegible]	[illegible]33.0	4[illegible]			"		[illegible] 50	02 25	[illegible]	[illegible]
[illegible]30	HD 217312	$22^h 54^m.8$	2 32	"	"	"	"	02 38	[illegible] 22	[illegible]	[illegible]
	Focus										

Dome Temp. 72
Focus 15.57
Dome Temp.

Transparency Conditions Haze + broken cloud

Getting worse - closed 2200
Cleared - opened 2300

116

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4	1 35 E	4 22	00	4.8	B5	12	Be Programme Set 5 Seq 5 8 counts	fine
4	0 05 W	+41 57	00	7.13	B9	4-4-4	Had ex mte fringe at 75% full	fine
		Light dead	1.30				KA 8x8 Set 5 Seq. 4 2545 2561 16 counts	[illegible]
	2 34 W	41 14	2.0002	7.5	43	4-4-4	KA 8x8 8 2592 30	[illegible]
	5 0 E	[illegible]	2	7.2	B[illegible]	4-4-4	8 2122 26	too weak
						4/10		UK.
					0 [illegible]		heavy cloud approaches.	
							2 Pm + 8	

117

Date Wed July 8-9/59 Observer L-Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24831	H.D. 154081	16 58.2	58 36	I-25	E103A	Set 008	25.6	21 27	22 47	
24832	H.D. 175863	18 52.3	59 53	"	"	"	25.6	22 55	23 41	
24833	" 172068 ST	18 33.0	41 12	"	"	"	25.5	23 59	02 59	
24834	" 207673	21 45.6	40 40	"	"	"	"	03 08	03 28	
	Focus Jupt. O.2B.									

Dome Temp. 67°F
Focus 15.57
Dome Temp.

Transparency Conditions

178

Start delayed by minor troubles

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 47	3 35 W	58 27	0	6.80	A3	4-4-4	Sets KA 8X8 clouds. EX MTR 2637-2649	good
3 41	024 E	59 56	1	6.9	B4E	4-4-4	" Be prog. 2650.	fair
2 59	312 W.	41 13	0-1	7.5	A3	4-4-4	" 2 KA 8X8 2665-2695 #8	good
3 22	028 W	40 57	1-2	6.5	A2Ib	4-4-4	" 2 MK. STOS 2697-2708 #7 12	good
						15/15	" 2	OK

2 P.H. in focus.

7101

Date [illegible] 9-10, 1956 Observer [illegible] Julian Day 24367

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21 08	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	00 38	02 00	
[illegible]	[illegible]	21 [illegible]	67 47	-	"	"	[illegible]	02 17	03 05	
[illegible]	[illegible]	21 [illegible]	[illegible]	-	"	"	[illegible]	03 15	03 29	
[illegible]	[illegible]	[illegible]	[illegible]	-	"	"	[illegible]	03 37	03 47	
	3 hours Last									

Dome Temp. [illegible] °F [illegible]

Focus 15.60

Dome Temp. 63 °F good

Transparency Conditions Fair Clear in SE

MARVELLOUS SEEING, [illegible] AT TIMES STAR IMAGE ALMOST [illegible] IN SLIT

Ending Time EST	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS		Quality
[illegible]	60 30 E	-02 13	1-2-3	8.2	B0	4-5-4	[illegible]	RACCLIFFE CB [illegible]	[illegible]	good
[illegible]	[illegible] E	[illegible]	2-3	7-2	G2 V	4-3-4	[illegible]	SG-HV	2745-2775	good
[illegible]	[illegible]	-51 4[illegible]	2	7.7	B4	4-4-4	[illegible]	RAUCLIFFE DB [illegible]	2775-2795	[illegible]
[illegible]	30 W	[illegible] 12	2-1	6.7	[illegible]	4-4-4	[illegible]	BC	2795-2830	[illegible]
[illegible]	30 W	[illegible] 51	0-1	7.2	B-C	4-4-4	[illegible]	BC	2830-2842	[illegible]
[illegible]	30 W	[illegible] 07	0-1	5.5	B3-C	4-4-4	[illegible]	BC	2842-2847	[illegible]
[illegible]	15 E	[illegible]	0	5.2	B3-C	4-4	[illegible]	BC	2847-2852	[illegible]
						4/10	[illegible]			

1 plate holder — [illegible]

July 10	MC	SC	MTU	STW	SW	ME
	+7	-4.0	-11.7	+7	+0.1	-1

Sat July 11. 210 visitors. Hd, McC, Lo showed 2 Hu with 36" thru thickening clouds. Thunderstorm later.

127

Date Sun July 12-13 59 Observer L-Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	H.
24842	HD. 157297	17 17.3	11 47	I-25	E 103A0	set .008	24.5	21 36	22 40	
24843	" 180398	19 11.3	12 56	"	"	"	24.5	22 46	01 44	
24844	" 200340	21 27.7	42 16	"	"	"	24.2	01 51	02 57	
24845	" 217543	22 56.3	38 10	"	"	"	"	03 05	03 37	
	Same 9st		0 73							

Dome Temp. 72°F
Focus 15.57
Dome Temp. 63

Transparency Conditions Clouds at sunset, then clearing

122

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 40	23 W	11 43	0	7.08	A0	4-4-4	Jet 5 KA. 8X8 prog. 2855-2867	
1 [illegible]	34 W	13 00	1	7.7	B8 ne	4-4-4	" " Be prog 2868-2880	
2 57	32 W	42 30	0-1	7.1	B6(n)	4-4-4	" 2 " " 2882-2896	
3 37	18 E	33 26	0-1	6.4	B3 ne	4-4-4	" 2 " " 2898-2903	
						15/10	" 5	

1 Pth in fog.

July	MC	SC	M-W	S-W	SW	ME
13	+7	-2.4	STOPPED		STP2	0.0

723 (Monday/Tuesday)

Date 13/14th July 1959 **Observer** Lo - Sr **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24846	τ Her	16 16.7	+46 33	I-25	E-103A₀	.001	23.8	21h 17	21h 21
		"		"	"	"	"	21h 23	21h 25
24847	28 Her	16 17.5	+19 23	"	"	"	24.0	21h 36	21h 41
		"		"	"		"	21h 42	21h 46
24848	HD 165401	18 [illegible].7	[illegible] 31	"	"		23.8	22h 42	00h 16
24849	HD 18[illegible]	19 47.4	+11 23	"	"		"	00h 24	00h 56
	Focus Test								
864-94	15 Vul	1960 20 00	1960 +27 38	H-F	1	0.020	5/6	01h 22	
865-94	λ Cyg	20 45.8	+36 20	"	x 2		5/4	01h 45	
866-94	σ Cyg	21 15.9	+39 14	"	x 2		5/5	02h 09	
867-94	ν Cep	21 44.3	+60 37	"	x 2		5/6	02h 23	
868-94	19 Cep	22 03.9	+62 05	"	x 2		5/7	02h 38	
869-94	4 Lac	22 22.8	+49 14	"	x 2		5/6	02h	
870-94	ζ Peg	22 [illegible].5	+10 [illegible]		x 2		5/4	03h 0[illegible]	
871-94	π And	22 [illegible].3	+01 10	"	x 2		5/6	03h 29	

Dome Temp. 70°F
Focus 15.55
Dome Temp.

Transparency Conditions Clouds till 23:30 good after 01:00

72

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
	0 11 W	+ 46 23	0	3.73	B5 I	4-8	Set 2	MK-stds.	Ex MTR term 4 2906 - 2909	✓
	0 11 W	"	0	"	"	4-8	" 5	"	" 4 2909 - 2911	"
	2 11 W	19 13	0	4.00	B5 I	4-4-4	" 2	"	4 2911 - 2914	fair
	0 36 W	"	0	"	"	4-8	" 5	"	4 2914 - 2916	"
	2 11 W	+32 37	0-1	7.02	B2 V	4-4-4	" 5	B2 V	7 2916 - 2932	weak
			1	6.31	B2 V	4-4-4	" 5	"	7 2932 - 2947	good
						15/10	" 9			
			0"	4.14	A5	30"	4260 - -5 + 0		MR 27 0	
			"	4.47	B5 V	"		"	"	
			"	4.25	G V	"		"	"	
			"	4.66	A2 Ia			"	"	
			"	5.5	B1 Ia			"	"	
			"	4.54	B2 I			"	"	
			"	3.61	B2 V			"	"	
			"	4.6	B1 Ia			"	" B	
				✓ P.H. in freq						

125

Date Tues July 14-15/59 Observer Hd (L) - Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24850	Jupiter N Trop. dark belt			I-25	EIIaO	longitt .008	+26.0	20 41	20 50	
		" "	"					20 52	20 56	
	N of the N Trop band (bright)							20 57¼	21 07	
	" " " "	"	"	"				21 31	21 36	
	" " " "	"	"					21 37	21 40½	
	On the dark N Trop band							21 42	21 48	
	" " "	"	"	"				21 50	21 55¼	
	" " "	"	"	"	(perhaps better band)			21 57	22 00½	
	Moon							22 08	22 09	
	"							22 10	22 12	
	"							22 12½	22 15¼	
24851	"	(other half of same plate)			"			22 17¼	22 19¼	
	"							22 20	22 23¾	
24852	HD 173003	18 38.1	-01 44	I-25	EIIaO	.016	26.1	22 48	00 16	
24853	HD 192383*	20 39.5	-05 18	"	"	.008	26.0	00 30	0346	
* error in programme	[illegible]		078							

Dome Temp.

Focus 15.67 − 0.09 = 15.58

Dome Temp.

Transparency Conditions

*2355 H.N. incorrectly set in Ex Mtr reading.

126

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
	−17 26.	1	Image not properly focused on slit.			set 0	seq. 4	counts 56 − 65	
						1		" 65 − 70	
						" 2	On det. appears [illegible] on limb	" 70 − 74½	
	Reset & focused					" 3		" 76 − 85	
						" 4		" 85 − 91	
						" 5		" 91 − 01½	
						" 6		" 02 − 11	
49W						" 7		" 11 − 17	
						" 8		17 − 22½	
						" 9		22½ − 29	
						" 10		29 − 37	
						" 1		37 − 45	
49W	−12 44	1				" 3		45 − 55	
49W	−1 42	1	7.7	B4	2-2-2	set 2	Radcliffe 0.3 prism	seq 8 Counts 55 *	
49W	35 30	1-2	5.0	~~[illegible]~~ K0	4-4-4	" 5	MK	" 8 2067-3123	
					15/[illegible]	" 9	3 MM − [illegible]		

127

TU 4 118

WED.-THURS.

Date JULY 15-16, 1959 Observer Mai-McC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	H
24854	HD 157702	17 19.7	+18 56	I-25	E103aO	0.008	28.0°	21 57	22 49	
24855	—— MWC 320	19 41.3	+05 44	"	"	"	"	23 02	02 02	
24856	HD 206773 MWC 376	21 39.3	+57 17	"	"	"	27.8	02 19	03 01	
24857	HD 217050 MWC 394	22 52.7	+48 09	"	"	"	27.8	03 14	03 59	
	Focus Test		OTB							

Dome Temp. 77°F

Focus 15.61

Dome Temp.

Transparency Conditions Slight haze

21:25 McC noticed finger-shaped aurora

22:15 WISPY CLOUD

72%

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS				Quality
22	0 42W	+18 52	0-1	7.48	A0	4-4-4	Set 2	KA 8°×8°	Sens 8	125-169	fine
22	1 34W	+05 52	0-2 bad	8.5	B5ne	4-4-4	Set 2	Be	Sens 9	170-290	bad
23	0 30W	+57 31	0	7.0	B0ne	4-4-4	Set 5	Be	Sens 7	291-307	fine
23	0 11E	+48 26	0-1	5.2	B3nc	4-4-4	Set 5		Sens 5	311	fine
						15/10	Set 9				OK
							3PH + 8				
					July 16		MC	SC	MTW	STW	SW	ME
							+7	-1.6	-9	+11.5	+1	-4

129

Thurs / Fri

Date July 16-17 Observer La - Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
~~24858~~	~~↑ Her~~	~~16 16.7~~	~~46 33~~	~~J-25~~	~~E103a~~	~~008~~		~~22 04~~		
24858	r Lyr	18 55.2	32 33	J-25	E103aa	008	29.5°C	23 27	23 30	
	"	"	"	"	"	"		23 34	23 36	
24859	HD 178849	19 05.1	34 35	"	"	"	28.0°	00 18	0308	
	m = 7.0	O7B.								

Dome Temp.....
Focus 15.63
Dome Temp.....

Transparency Conditions.....
About 2 mag. Extinction clouds first half

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS					Quality
			~~0~~	~~3.73~~	~~B5 III~~	~~4~~	~~cloud! slns 4~~	~~MK stds~~	~~clouds~~	~~3320~~		
3 30		32 37	0	3.18	B9 III	4-4-4	set 2	MK stds	stars	Sm 4 3323-3326		
3 36			0	"	"	4-4-4	set 8	"	"	"	Sm 4 3326-3328	
308	320 W	34 40	0-1	6.4	B3 V	4-4-4	" 5	"	"	"	#8 30 counts??	
						15/10	" 9					

I.P.H in big.
A very poor night!!

July 17	MC	SC	MTW	STW	SW	ME
	+8	-0.6	-17	+1.1	+0.8	-3

137

Date.....Observer.....Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

132

July 17 L. Changed to $12\frac{1}{2}$ Camera 25° Was Foam 15.63 Fill 23.15 $12\frac{1}{2}$ is F 13.00 T 20.25

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							Saturday July 18 - Cloudy night. Mai Sr Dq demonstrated Telescope showed film "The sky family" to about 100 visitors. 2nd HALF CLOUDY. Bair	

133

(Monday/Tuesday)

Date 20th/21st January Observer La – Sr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24860	HD 156110	17h 10.6	+45° 30	1-12	E103Ao	008	24°C	22h 03	22h 30	1
24861	" 164353	17h 55.5	+02° 56	"	"	"	"	22h 42	22h 44	2
	"			"		"	"	22h 45	22h 52	"
							"	22h 53	22h 54	"
24862	186841	19h 41.7	+23° 50'	"	"	016	24.8°C	23h 21	00h 29	3
24863	BD+45° 3230	20h 33.9	+45° 47	"	"	"	"	00h 49	02h 11	4
24864	HDE 239123	22h 15.8	+58° 27	"	"	"	24.8°C	02h 40	03h 34	1
"	Focus Test					"				

Dome Temp. 70° F

Focus ← not number

Dome Temp. 28° F

Transparency Conditions Clouds after Sun set

Moon was rather bright

134

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	5h 33 W	45° 26′	0	7.3	MS B3	2-4	MS = main sequence B - star: Seq 7 : 373-377	good *
[illegible]	5h 20 W	+ 2° 54	0	4.0	SG B5	2-2-2	SG = supergiant: 0+1 " : " : 379-381	good
[illegible]	5h 29 W	"	0	"	"	2-2-2	: " 5 " " : 381-385	[illegible]
[illegible]	5h 31 W	"	0	"	"	2-4	: " 9 " " : [illegible]	weak *
[illegible]	5h 21 W	+ 23° 57	1	9.0	B1 Ia	2-1	: " 5 O-B star 9 : 386-415	
[illegible]	5h 11 W	+ 46° 00	1-2	10.15	B III	1-1-1	: " 5 " 10 : 416-476	too weak
[illegible]	5h 52 W	+ 58° 42	0	9.7	B3 Ib	1-1-1	: " 5 " 10 : 476-	
						11/8	" 9 c. [illegible]	[illegible]
							4 P.H → 0	* guiding here

135

Date Tues-Wed 21/22 July 1959 Observer McC-Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F.
24365	HD 139992	15 36.2	+56 13	1-12½	E1030-0	.007	29.0	20 47	21 03	
24366	HD 164353	17 55.6	+66 56	"	"	"	28.7	21 30 00	21 30 30	
								21 33 00	21 34 00	
								21 35 30	21 44 00	
24367	HD 171544	18 32.4	+33 33	"	"	"	28.7	22 02 30	22 09 00	
								22 02 30	22 11 00	
								22 12 00	22 [illegible]	
24368	BD 28°3481 Tau Tau	19 31.0	+29 55	"	"	"	29.0	23 53	01 59	
			O.T.B.							

Dome Temp. 81°

Focus ← not recorded (13.00)

Dome Temp.

Transparency Conditions Haze + Clouds Spot guide 136

bad at 2100. Cr. hazy, clouds. Tr. gu...

2130 Haze - Try for [illegible]. Haze [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 [illegible]	+56 00	0-1	7.2	Bq	2-4	K+5.8 Set 5 Sens 8 3540 - 3746	
		+52 26	2-3	4.0	B.5	6	B-Std Set 2 Sens 5 2 counts	
			"				5 1 count	
			1-2				8 4 counts	
		+52 26	0	5.4	Bq		B-Std Set 2 Sens 5 2 counts	
						6	5 1 count	
	36 E						8 4 counts	
	159 W	29 00	0-1-2	9.5	B.J.bq	2-2-2 8/6	OB Set 5 Sens 9 3576 - 3616	
							" 9	
							4 PH in fig.	
							0200 Ok. + Haze. Quiet [illegible]	
							L changed focus to 12.95	

137

Wed - Thurs

Date July 22/23 1959 Observer (MR) Lu - Mai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24865 9	τ Her	16 16.7	46 33	I 25 (12.5)	E 103a	008		21 12		
	"	"	"	"	"	"		[illegible]		
	"	"	"	"	"	"			21 27	
24866 70	α Lyr	17 30.3	12 38	"	"	008		21 50		
	α Lyr	"	"	"	"	"		each [illegible]	[illegible]	
	"	"	"	"	"	"			22 10	
24872 1	H.D 183143	19h 23m.0	19° 05'	"	"	"	31.2	22:20	23:12	
	"	"	"	"	"	"	29.3	23:14	01 08	
24873 2	α Cyg	20 38.0	+44 55	I 12½	"	"	29.4	01 25		
	"		"	"	"	"				
	"		"	"	"	"				
	"	"	"	"	"	"				
	"	"	"	"	"	"				
	"	"	"	"	"	"			01 34	
24874 3	55 Cyg	20 45.5	+45 25	"	"	"		01 46	02 02	
	"			"	"	"		02 02	02 32	

Dome Temp. 78°
Focus ~~[illegible]~~ 12.953
Dome Temp. 72°

Transparency Conditions Poor (EXTREMELY SO) HAZY!! 138

00:45 HAZE REINFORCED BY CLOUD
01:45 CLOUD EVERYWHERE (+ MIST)
02:15 SOMEWHAT CLEARER
02:40 CLOUDED OUT

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	[illegible] W	46 23	0-1	3.73	B5 II	2-22	set 2 MK Stds seq. plate marked 24568 #5 1 count	
						"	set 5 " 2 counts	
						"	set 9 " 4 counts	
			0-1	2.14	A5 III	3.3	set 2 MK Stds plate marked 24569 " 25 counts	
			"	"	"		set 5 " 12 "	
		+12 34	"	"	"	2-2-2	set 9 " 3 "	
	[illegible] E	+18 12	0	6.7	B7 Ia	2-2-2	set 2 MK stds clouds hard! seq 7-669 - 677	
	[illegible] 24 N	" "	"	"	"	"	set 5 " " " 677 - 687	
	~~[illegible] 37 W~~	+45 07	0	1.33	A2 Ia		Set 2 1 sec " "	
							" 3 2 sec " "	
						6	" 6 2 sec " "	
							" 8 4 sec " "	
							" 9 6 sec " "	
	[illegible] 37 W		0				" 10 8 sec " "	
	[illegible] 57 W	+45 57	[illegible]	4.29	B5 Ia	2-2-2	Set 2 ([illegible]) " Seq 5 [illegible]	
	[illegible] 27 W		[illegible]		"	2-2-2	" 5	

139

Date Wed-Thurs July 22/23, 1959 Observer [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
See 1487X2	α Cyg	20 38.0	+44 55	I-10½	E103aO	0.031	29.4C	0 2 38	0 2 38½	4
See 1487X3	FOCUS TEST OTB									1

ome Temp.....

Transparency Conditions.....

ocus.....

ome Temp.....

ding Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	1 43 W	+ 45 0 ?	0-0	1.33	A2I a		SD 0 I 30 sec MKZd.	
						8/6	Set 9 Extremely good night	
							3 P.H. + 4	

141

Date FRI-SAT July 24-25/59 Observer L. DH-Jai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24874	16 SGR	18 09.3	-20 25	I-12½	E103Ao	set .008	26.3	21 05	21 25
	"						26.3	21 31	22 13
24875	BD+28°3485	19 44.9	+28 34	"	"	.016	"	22 25	00 31
24876	H0 198478	20 45.5	+45 45	"	"	.016	"	00 49	00 51
"	"	"	"	"	"	.016	"	00 54	01 02
	FOCUS TEST		OTB						

00 00 CLOUD (INTERMITTENT) (VARIETY)

Time Temp. 70°F
Focus 12.95
Time Temp. 61°F

Transparency Conditions –

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
21 25	P 58E	-20 24	0	6.02	O9II	2-2-2	Set 3	MK Stds	Lens 6 712-714	
22 13	P 10E					2-2-2	" 8		734-738	
[illegible]	[illegible] 35W		0	7.1	B2V	1-1-1	" 5	OB Pr. [illegible]	9 739-769	
[illegible]		+45 57	0	4.7	B2	3	" 2	B Star Std Vel. taken through thick cloud, wide slit.	1 comp	
[illegible]	CO 05W	+45 57	0	4.7	B2	3	" 5		1 comp	
						8/6	" 9	CLOUDED OUT.		
								4 P.H. + 0		

143

Date Saturday July 25-26 1959 Observer Dg – Mac Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24877	HD 178849	19h 05.1	+24° 35'	I-12	E103aO	set .002	23.8°C	22 54	23 13
								23 50	00 34
24878	BD +44°3731	21 07.8	+45 05	I-12	"	.016	23.8°	0248	0248
24879	12 LAC	22 27.0	+39 42	"	"	.008	23.9	0258	0300
								0304	[illegible]
								0309	0311½
								0319	0319
24880	HD 3340 Focus Test	00 36.9	+63 45 DX B	"	"	"	24.0	0334	0404

2200 [illegible] 2300 [illegible]

144

ome Temp. + 66° F

Transparency Conditions Clear

ocus 12.95

250 visitors shown M13 through 74-in.

ome Temp.

by DQ, McC, Lo

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS				Quality
00	+ 34 40	0	6.5	B4 n.s.	2-2-2	B [illegible]	sets	[illegible]	3776 3778 3782 3786	
21 W	~~[illegible]~~	0			2-2-2		set 8			
33 W	+45 17	[illegible]	9.57	B5 III	2-2-2	OB	set 5	SNS 9	3487-3553	
16 W	+39 37	0-1 var	5.18	B2 III	6	MK Sta	set 1	SNS 5	3857-3859	
13 W							set 4		4 comp's	
32 W							set 7	3860 3755	8 comp's	
03 W							set 9		1 comp's	
42 E	+64 02	0-1	7.5	A1 Ia	2-2-2 8/6	CR Sta	sets	SNS 8	3775 3896	

4 Pit + 8

745

Date Sunday, July 26/27 1959 Observer McC - Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24921	HD 156110	17 10.6	+45 30	1-12"	E103a-0	.008	27.4	20 39	21 13
24922	HD 158262	17 33.2	+11 31	"	"	"	27.5	21 21	01 15
24923	" ~~143183~~ 192383 *	20 09.5	35 18	"	"	"	27.0	01 35	02 31
24924	BD +27° 3514	19 11.9	27 48	"	"	"		02 37	04 01
	Prog. 7 +	O/B							

*error in programme

ome Temp. 77°F
ocus 12.95
ome Temp. 65°F

Transparency Conditions Good
2145 [illegible]
2310 [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	01E	-45 23	0-1	7.3	B3 M2	2-2-2	B type star Sets Sous 2 3898 3911	[illegible]
[illegible]	48W	+11 25	0-10	8.0	A?	2-2-2	K A Bas Sets Sous 9 3920 3977	[illegible]
[illegible]		35 29	1-2	8.0	~~B+S6~~ Ko	2-2-2	MKSTD " 2 " 8 3931 4000	[illegible]
[illegible]	15 W	27 57	0	3.3	A2 Ia	2-4	[illegible] Fig 76 " 2 " 8 4002 4007	[illegible]
						9/6	" 8	[illegible]
							I.P.H. +7 in focus.	
							* [illegible]	

147

Mon/Tues

Date July 27/28 1959 Observer La – Mr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. Cent	Starting Time E.S.T.	Ending Time E.S.T.	P.
872-95	T Her	16h 18.6m	+46° 24'	H γ	X2	0.020	5/6	20:55		
873-95	α Aql	17 33.1	+12 36	H γ	X2	"	5/1	21:23		
874-95	ζ Dra	17 08.7	+65 46	"		"	5/3	21:39		
875-95	39 Dra	18 23.4	+58 47	H γ	X4		5/6	21:55		
876-95	ι Her	17 38.3	+46 02	H γ	X2	"	5/4	22:20		
877-95	α Lyr	18 35.6	+38 44	"		"	3/6	22:35		
878-95	κ Aql	19 34.7	−07 07	"		"	5/7	23:09		
879-95	ι Aql	19 34.6	−01 23	"		"	5/4	23:26		
880-95	γ Lyr	18 57.4	+32 38	"		"	5/3	23:41		
881-95	δ Cyg.	19 43.7	+45 02		"	"	5/2	23:54		
882-95	1906 β3	20 03.1	+32 06		"	"	6/3	00:08		
883-95	α Del	20 37.8	+15 47	H γ	X4	"	5/3	00:46		
~~884-95~~	~~ε Aqr~~	~~20 43.5~~	~~−09 34~~	~~H γ~~	~~X2~~	~~"~~	too late!			
884-95	λ Cyg.	20 45.8	+36 20	H γ	X2		5/5	01:10		
885-95	1974 f8	21 54.4	+47 16	H γ	X3		6/4	01:21		

Dome Temp. 74.5 °F

Focus

Dome Temp.

Transparency Conditions very good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	~~Comp.~~ Eye Lole	REMARKS	Quality
			8"	3.73	B5 IV	smaller eye	III R. Lost D 1A/sec 2"/min	
		+12 35	"	2.145	A5 III	"	" " " "	
		+65 44	"	3.08	B6 III	"	" " B " "	
		+58 44	4	4.85	A1 V	"	" " D " "	
		+46 01	"	3.62	B3 IV	"	" " A " "	
		+38 42	"	0.04	A0 V	30	" " A " "	
		-07 07	"	5.04	B0.5 III	"	" " D " "	
		-01 23	"	4.28	B5 III	"	" " D " "	
		+32 37	"	3.30	B9 III	"	" " " " "	
		+45 02	"	2.97	B9.5 III	"	" " " " "	
		+32 06		5.69	B1.5 Ia		D	
		+15 44		3.86	B9 V	"	" D "	
		+36 20		4.42	B5 V	"	" "	
		+47 16		5.76	B8 Ia	"	" "	

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Date..... Observer.....Mai - Lac..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
886-95	5 Cyg	21 15.9	+39 14	H Y	X2	.020	5/5	01:58	
887-95	9 Cyg.	21 36.8	+61 54	H Y	X2	.020	5/7	02:13	
888-95	D Cyg	21 44.3	+60 57	"	"	"	5/6	02:25	
889-95	14 Cyg	22 00.7	+57 48	H Y	X2	"	6/3	02:58	
890-95	19 Cyg	22 03.9	+62 05	"	"	"	6/2	03:09	
891-95	4 Lac	22 22.8	+49 14	"	"	"	5/5	03:21	
892-95	10 Lac	22 37.5	+38 51	"	"	"	5/5	03:34	
893-95	ω^2 Aqr	23 40.6	-14 46	H.Y	X4	"	5/6	03:50	

ome Temp.....

Focus.....

ome Temp. 72°F

Transparency Conditions still very good!! 156

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+39 13	5	4.28	B9Iab	30"	M.R List D 1A° pec 2"/m	
		+61 53	"	~~5.71~~	B2Ib	30"	" " " " " " "	
		+60 54	"	4.66	A2Ia	"		
		+57 44	"	5.50	O9V	"		
		+62 05	"	5.17	O9.5V	"		
		+49 13	"	4.64	B9Iab	"		
		+38 48	"	4.91	O9V	"		
		-14 46	"	4.62	B9.5V	"		

Please check Brown - had to replace roll of paper + it stuck occasionally

ha

151

Date ~~July~~ Tues/Wed July 28/29 1959 Observer MR - HV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
894-96	K Opl	16 55.8	+09 26	5000	-3600	0.010	6/2	20:40	
895-96	β Opl	17 41.5	+04 35	5000	-3600	"	6/2	21:10	
	β Opl	"	"	"	"	"	6/2	21:38	
24755	H.D. 170010	1900 18 22.2	1900 +06 28	I 12½	E103aO	016	31.0°	22:15	23:45
24756	B2+27 3513	19 42.7	27 42	"	"	008	31.5	00 25	0:13
	[illegible]								

Dome Temp. 80°F

Focus

Dome Temp. +74

Transparency Conditions poor till 22:00

0100 Patches of thin cloud.
0200 Cloud.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Spectrophotometer	REMARKS	Quality
				4.33	K2 III	large			
		+09 26		~~2.60~~	~~B2 II~~	lobe		4 A/sec 2"/min	
		+04 35		2.90	K2 III	"		" "	
		" "		"	"	"		2 A°/sec 1"/min	
2:45	26 SW	+06 29	0	8.4	B7	2-2-1	Sets' B. Type Std Vol Stars seems 9	60 counts 4013 -	
3:12	35 NW	27 56	0-1	2.3	A2 Ia	2-2-2	" 2 OB.	4080 - 4078	
						2/6	" 8	2300 Solid = fuel.	
								2 P.M. — 6 — 0	
								Wh stole the Stolen?	
								it's back	

153

Date Wed/Thurs July 25/26 1917 **Observer** La – McC **Julian Day** [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F
24887	HD 174500	18 55.5	+40 33	I-12½	Eastman	0.004	28.3	22:15	22:43	
24888	BD +28° 3131	19 37.3	+28 55	I-12½	"	"	28.3	22:53	[illegible]	
24889	HD [illegible]	22 15.3	+55 27	"	"	0.016	28.4	[illegible]	[illegible]	
24890	HD 223960	[illegible]	[illegible]	"	"	.008	[illegible]	03 28	[illegible]	
	Focus Test									

Dome Temp. 78°F

Focus 12.95

Dome Temp. 71°F

Transparency Conditions Fair

Cloud till 22:00 00:15 [illegible]

154

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	0:05 E	+40 36	0	6.0	K M5	2-2-2	[illegible] sets Seus 6 3 counts	[illegible]
[illegible]	1:44 W	+29 08	0	8.5	G Sep	2-2-	sets OB (4.10) vers 4102-4151	[illegible]
[illegible]	[illegible]	[illegible]	1-2-3 Good	9.7	[illegible]	1-1-1	[illegible] Seus 10 4152-4201	[illegible]
[illegible]	2:41	+60 36	1	6.7	[illegible]	2-2-2 8/6	MK Std Sets Seus 8 4241-4242	[illegible]
							Fogged Out	
							2PM + C	

155

Date THUR. FRI. JULY 30/31 1959 Observer DH - MSC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	11
24891	HD 176502	18 55.5	+40 33	I-12	E1032-0	008	30°C	2135	2153	
24892	BD+28 3438	19 38.1	+28 46	"	"	016	30°C	2209	2333	
24893	BD+31° 3921	20 00.3	+31 53	"	"	016	29.8	2346	0050	
24894	HD 235673	21 54.0	+52 24	"	"	"	30-1	0100	0304	
24895	HD 210204	22 09.9	+51 56	"	"	.008	30.0	03 11½	04 11½	
	Focus Test	577 E.								

Dome Temp. 80°F

Focus

Dome Temp. 68°F

Transparency Conditions Cloudy Early

Cloud or fog ≈ 245 Aurora 2315

0230 partly light cloud

156

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2352	51 E	+40 38	0	6.0	B5	2	missed Hα 4 secs B Std Vel Set 5 Sens 0 4296 - 4300	[illegible]
2353	07 W	+28 56	0	8.7	B2	1-1-1	OB (p76) Set 5 Sens 9 4304 - 4374	fair
[illegible]	02 W	+32 00	0-1	8.8	B1Ib	1-1-1	OB (p76) Set 5 Sens 9 4381 - 4441	fair
[illegible]	22 W	+59 36	0	9.4	O4	1-1-1	OB (p20) Set 5 Sens 10 4445 - 4566	fair
[illegible]	[illegible] W	+52 13	0	9.5	O9Ib	2-2-2	MK Std Set 5 Sens 8 4568 - 4788	fair
						6/6	Set 9	
							3PH +6	

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Date Fri July 31 - Aug 1/59 Observer L - Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24896	BD+21 3550	19 50.0	28 05	I-12½	E-103Ao	Set .016	26.8	21 27	00 13	4
24897	BD+25° 4083	19 59.2	26 00	"	"	"	26-4	00 20	0400	
	7 [illegible]	07	3							

Dome Temp. +76°F

Focus 12.95

Dome Temp.

Transparency Conditions Good

0130 EDT Fire near Langstaff

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
039 W	28 12	1	9.9	B9IA	1-1-1	Set 5 OB prog 10-4601-4724	fine
41 5 W	26 08	00	9.4	BI3	1-1-1	" 5 " " 9-4736-4770	good
					4/3	" 9 focus OK	
						1 P.H. +6	

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Date Sat Sun Aug 1-2, 1959 **Observer** Jg - Mai **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Ir.
24898	BD +25° 4035	19 59.8	+26 03	I-12	E103Ao	Set .016	+20.8°C	23 [illegible]	01 15	
24899	BD +60° 2380	22 15.6	+60 16	"	"	"	+20.8°C	01 29	02 46 (56?)	
24900	HD 217811	22 58.2	+43 31	"	"	"	+20.8°C	03 08	03 12	
	"	"	"	"	"	.008	+20.8°C	03 14	03 27	
	"	"	"	"	"	.008	+20.8°C	03 23	03 38	
	"	"	"	"	"	"	+20.8°C	03 39	03 43	
24901	o Cas	00 39.2	+47 44	"	"	"	+20.8	03 56	03 57	
	"	"	"	"	"	"		03 59	04 00	
	"	"	"	"	"	"	+20.8°C	04 02	04 04	
	FOCUS TEST with 24898			OTC						

ome Temp. 61°F
ocus 1295
ome Temp. 57°F

Transparency Conditions: Clear. Some grain [illegible] 160
Dg, Hα, -2 showed α Her
and M13 (magnified) to 175 minutes

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS				Quality
[illegible]	35 W	+26° 09	0	9.4	B1 III	1-1-1	set 5	OB program	Seq. 9	60 counts 4777 - 4837	fine
[illegible]	01 W	+60 31	0	9.43	B2 III	1-1-1	Set 5	OB program	Seq 9	60 seconds 4853 - 4913	fine
[illegible]	0 34 W	+43 50	0	6.1	B3 M.S.	1-2	Set 2	B type STD. VEL.	Seq 6	4919 - 4921	
[illegible]	0 44 W	+43 50	0	6.1	B3 M.S	3	Set 5	"		4921 - 4923	all too strong
[illegible]	1 50 W	+43 50	000 0	6.1	B3 M.S	2-2-2	Set 8	"		4924 - 4928	strong
[illegible]	1 0 W	"	0	"	"	[illegible]	Set 10½	"		4929 - 4930	strong
[illegible]	0 22 E	+48 02	0	4.71	B2 V	6	Set 2	MK std.	Seq 5	2 counts	[illegible] strong
[illegible]	0 19 E	"	0	"	"		Set 5	"		1 count	fine
[illegible]	0 15 E	"	00	"	"	6	Set 8	"		4940 - 4944	v. strong
						8/6	Set 2?			focus OK (plate turned around)	
								3 P.H. + O			

Date Sun-Mon Aug 2-3, 1959 Observer La-Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24902	HD 156110	17 10.6	45 30	I-12½	E103a-o	0.16	23.5°C	20:45	21 45
24903	BD+27°3512	19 42.6	+28 00	"	"	0.16	23.8°C	21:50	00 02
24904	BD+27°3513	19 42.9	27 48	"	"	"	23.4	00 18	03 24
	Moon Jet.		07B			"			

Ime Temp. 68°F

Focus

Ime Temp.

Transparency Conditions good

Seeing very bad at first - gradually improving to about 0 at 23:00

Ending Time E.S.T.	Hur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	03.51W	+45 24.	0	7.3	B3	1-1-1	Set 5 B type Std Sens 8 4948-4968	1 wk
00:2	00 43W	+28 06	"	8.6	O7	1-1-1	Set 5 O.B. Sen 9 4970-5031	weak
23:2	04 05W	27 55	0-1	8.3	A2Ia	1-1-1	" 2 " [illegible] " 8 5033-5053 comp. weak.	fair
						4/3	" 8	
							4 P.H. in focus	

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Date Thurs/Fri Aug 6/7 1959 Observer L Lo - McC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F
24905	SD 27°3512	9 42.6	22 00	I 12.5	103-a-O	0.6	24.8°C	22 20	23 12	1
24906	HDE 229239	20 20.4	+33 11	"	"	"	24.8	23 31	01 01	2
24907	BD+54.2764	22 23.2	+54 53	"	"	"	24.8	01 12	03 10	2
	Focus Test		OTE							

Dome Temp. 70°-

Focus 12.95

Dome Temp. 66

Transparency Conditions good

light cloud at 0005 to 0020
0130 star almost disappearing at
0140 cloud low in the zenith

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	0 09W	2[illegible] 07	1-[illegible]	9.3	07	1-1-½	[illegible] (page 7b) Str 8 5072 5091	[illegible]
[illegible]	1 21W	+32 20	var 0-1-2	9.6	E,Ia	1-1-1	OR Set 5 (page 9) guiding Seq 9 5095 5163	good
[illegible]	1 20W	+55 10	0-2	9.6	E,Ib	1-1-1 4/3	OR Set 5 (page 20) guiding Seq 9 5164 5219	good
							Set 9 focus ok	
							Clouded Out	
							3PH + 6	
							Had to move lens to get uniform focus. Probably about 10 minutes (Sample [illegible])	
							Ex [illegible] fixed at .7 for [illegible] [illegible] for [illegible]	

7 C S

Date 2nd/5th Aug 1977 Observer DH - Mrai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24908	HD193183	$20^h\ 13^m.3$	$+37°\ 55'$	I-12	EOS 40	002	25.1°C	2306	2400	
24908T1	SPOTS (HALVED FROM LAST PLATE)	—	—	—	"	—	—	00 04.5	01 48.5	
24908T2	SPOTS (HALVED FROM LAST PLATE)	—	—	—	"	—	—	01 50	01 53	—

← RECIPROCITY TEST

Dome Temp. 69°F
Focus 12.95
Dome Temp. 71°F

Transparency Conditions

N, Mar DH showed ε Herculis to about 170 visitors
some clouds during first hours,
Cloud 2320 from Southeast Overhead 2350

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
34W	+38° 05′	1.0	7.12	B1.5Ib	2-2-2	MK Std Seq 7 5247-52	good
—	—	—	—	—	—	Plate cloud cov. became overhead	
—	—	—	—	—	—		
						2 P.H. + 6	

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Date ~~Aug~~ Aug 10-11 / 1958 Observer McC + Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24909	HD 158262	17h 23.2m	+11° 31'	I-12½	E103-Ao	008	24.5°	20:28	2100	-
	Focus Test	1969	CTP (1950)				zero			
896 -97	HD 180554	19 14.5	+21 19	Hγ	x2	020	5/6	22:45		
897 - 97	12 Vul	19 49.2	+22 30	"	"	"	5/6	2259		
898 - 97	V380 Cyg	19 49.3	+16 29	Hγ	x4	"	6/3	2312		
899 - 97	HD 190603	20 03.1	+32 06	Hγ	x4	"	6/4	2331		
900 - 97	57 Cyg	20 51.7	+44 14	Hγ	x2		5/6	2354		
901 - 97	f' Cyg	20 58.4	+47 22	Hγ	x4		5/6	0005		
902 - 97	ν Cyg	21 16.2	+34 44	Hγ	x2		5/5	0022		
903 - 97	9 Cep	21 36.8	+61 54	Hγ	x2		5/7	0037		
904 - 97	ν Cep	21 44.3	+60 57	Hγ	x2		5/6	0048		
905 - 97	14 Cep	22 00.7	+57 48	Hγ	x2		6/3	0100		
906 - 97	19 Cep	22 03.9	+62 05	Hγ	x2		5/7	0110		
907 - 97	4 Lac	22 22.8	+49 14	Hγ	x2		5/6	0122		
908 - 97	12 Lac	22 39.7	+40 04	Hγ	x4		5/7	0133		

Dome Temp. 73°F
Focus 12.95
Dome Temp.

Transparency Conditions Fair some cloud.
2050 cloud coming in from NW
2230 sky clear - good!

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 00	[illegible]	+11° 25'	0-1	8.6	A?	2-4 / 8/6	Kit 8x8 Sens 9 5255-66	Too weak
							Set 2 3PH+4 from ex ↖ clouded out	
			10	4.6	B5n	30"	M.R. List B 1A°/sec 2"/min	
			"	4.9	B4	"	" " " "	
			5	5.6	R3	"	" " " "	
			5	5.7	B1.5Ia	"	" " " "	
			5	4.7	R5	"	" " " "	
			5	4.9	B1 IV:e	"	" " " "	
			5	4.4	R3 1:ek	"	" " " "	
			5	4.9?	B2Ib	"	" List D " "	
			5	4.66	A2Ia	"	" " " "	
			3	5.50	O9 V	"	" " " "	
			5	5.17	O9.5 Ib	"	" " " "	
			5	4.64	R9 Ia:e	"	" " " "	
			5	5.12	R2 III	"	" " " "	

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Date August 10-11 1959 Observer ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. Scale	Starting Time E.S.T.	Ending Time E.S.T.	P.
909-97	i And	23 36.1	+42 03	Hγ	x2	020	5/5	01 51		
910-97	ξ Peg	23 39.5	+10 38	Hα	x2	020	5/3	02 04		
911-97	ψ² Aqr	23 15.2	-09 24	Hα	x2	"	5/6	02 20		
912-97	ω² Aqr	23 40.6	-14 46	Hγ	x2	"	5/6	02 35		
913-97	γ Peg	00 11.2	+14 58	Hγ	x2	"	5/2	02 49		
914-97	ε And	00 15.0	+38 22	Hγ	x4	"	5/6	03 05		
915-97	ξ Cas	00 39.2	+55 15	Hγ	x2	"	5/7	03 27		
916-97	o Cas	00 42.4	+48 04	Hγ	x2	"	5/5	03 42		
917-97	ν And	00 47.6	+40 52	Hγ	x2	"	5/5	03 53		
918-97	κ Cas	00 30.7	+62 42	Hγ	x4	"	5/5	04 07		

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions excellent

Ran dec slow motion to end of travel. Ran back about 1/2 width of finder field.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		10	4.28	B8 V		MR List D 1A'/sec 2"/min	
		"	3.61	B8 V		" " " "	
		5	4.65	B5 V		" " " "	
			4.62	B9.5 V		" " " "	
			3.87	B2 IV		" " " "	
			4.44	A2 V		" " " "	
			4.85	B2 V		" " " "	
			4.70	B2 V		" " " "	
			4.42	B5 V		" " " "	
			4.24	B1 Ia		" The Sun " " "	

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Tu/We

Date August 11-12 1959 **Observer** vdB - Hr **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.A.	Exc Angle Ind
2490 (10)	BD+45° 3406	21h 03.0	+45° 27'	12"	103a0	16	26°C	20h 47m	22h 47	2	[illegible]
2491α	HD 213014	22h 23.4	+16° 46	12"	103a0	8	27°	23h 21m	00 35		[illegible]
2491α (2)	BD+53° 2043	22 15.0	53 46	"	"	.016	27	00 54	02 20		[illegible]
2491β (3)	HDE 235825	22 19.7	54 49	"	"	"	27°	02 30	03 36		[illegible]
	No. 25 07/B										

Aug. 13 - Okai

Completely overcast at 00:00 E.S.T.

" " " 01:00 E.S.T.

" " " 02:00 E.S.T.

" " " 03:00 E.S.T.

Dome Temp. 78°

Focus —

Dome Temp. 70°

Transparency Conditions Fine

Guiding perfect.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h 15m E	45° 41'	0-1	10-11	B5 Ia	1-1-1	pos 5 OB group	
049 E	+1702	0-1	8.5	S8	2-4	pos 5 [illegible] Binary, 6th component!	fine
105 W	5403	1	9.5	O8	1-1-1	" 2 OB. #9 5291 - 5358	
216 W	5502	1-2	9.1	O9 V	1-1-1	" 5½ " #9 5360 - 5430	
					4/3	" 9 [illegible]	

HPH on [illegible]

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Could not find [illegible] (see page 24) [illegible] experience. Difficulty [illegible] not [illegible] BD chart [illegible]

Date Thursday Aug 13-14/53 **Observer** LA + M.C. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
1-24914	HD 129992	15 [illegible]	+56 13	1-12½	E103a-O	008	29.7	20 13	21 03	1
24915	HD 172069 np	18 33.0	+41 12	"	"	"		21 17	22 03	2
	F5		OTB							
919-920	HD 180554	1960 19 14.5	1960 +21 19	HY	X4	020	temp 5/6	22 12		
24916	69 Cyg	1900 21 21.7	+36 14	1-12½	E103a-O	008	before start 28.1°C	23 34	23 41	3
	"	"	"	"	"	"	"	23 42	23 47½	
	"	"	"	"	"	"	"	23 45	23 55	
24917	HD 207673	21 45.6	+40 40	"	"	"	28.0°C	00 00	00 10	4
								00 10½	00 15½	
								00 16	00 18	
24918	12 Lac	22 37.0	+39 42	"	"	"	? 27.0°C	01 04	01 06	1
								01 07	01 08	
								01 09	01 15	
24919	HD 212883	22 22.4	+36 57	"	"	"	"	01 19	01 33	2
24920	HD 213960	22 48.9 (0.9m)	+50 12	"	"	"	25.8°C	02 05	02 31	
							(N.B. [illegible] the Shutter [illegible]			

Dome Temp. 83

Focus 12.95

Dome Temp.

[Switch fan and pump on thermostat making poor contact. Cloud passing at 2:05]

Transparency Conditions light cloud at sun-set 79 clearing 21:30 to good 22:05 cloud

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
2 34W	56 00	0	7.20	Eq	2-2-2	[illegible]	Sem 8 5577 5602	good
0 37W	+41 14	0	7.6	A3?	2-2-2 8/6	" " " (P) guiding by eye piece	Sem 9 5663	good
		10	4.6	P5N	30"	MR. Spectrophotometer (clouded out) List B	1A/sec 2"/mm	
0 34E	+36 30	0	5.84	B0Ib	2-missed start	MK Std. set 2	Sem 6 5664 5606	good
0 30E	" "	1	"	"	6	set 5 "	" 1 count	
0 19E	" "	0	"	"	none	set 3 "	" 4 count	
00 29E	+40 57	0	6.5	A2Ib	6	MK Std set 2 guiding	Sem 7 5671 5673	good
0 23E	"	"	"	"	—	set 5	2	
0 07W	" "	1	"	"	—	set 3 closed again	5677 5685 5685 8	
	+40 00	0	5.18	B2III		MK set 2 plate [illegible] Std	97 2 plates	
	" "	"				set 5	98 1	good
0 35E		1			6	set 8	4	
0 19W	+37 13	0	6.2	B2 M.S	2-2-2	set 5 B-Type Std Del Star	Sem 7 5693 (A)	
0 39W	+60 38	1-2	6.7	A0Ia	2-4	MK Std set 2 check from field	Sem 7 5705	
was [illegible] it was [illegible] turned [illegible]						This was corrected for plate [illegible]		

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Date Thur/Fri Aug 13-14/59 Observer Id. Mee & La Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24921	γ Peg	00 08.1	+14 58.8'	J-12½	E103a0	008	25.8°	03 [illegible]		
							25.8		0319	
	Focus Test		OTB							

Dome Temp.....

Focus.....

Dome Temp. 74° F

Transparency Conditions Poor

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+14 58	0	2.7	B2Z	6	MK Std set 0 15 sec	weak
			0				set 2 30 sec	weak
			0				set 4 1 min	fair
			0				set 6 5	barely
3.9	0 19W		0				8 2 min taken through cirrus cloud	fair
						8/6	Set 10 [illegible] ok	
							clouded out	
							4 P4-4	

Ari. Sd.

Date 1959 AUG 14-15 Observer Mai – Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Zenith angle End
24922	HD 170010	18 22.2	+06 28	I-12.5"	E103a O	0.016	31.5°C	20 18	21 14		01W
24923	BD+45° 3230	20 33.9	+45 47	I-12.5"	E103a O	0.016	31.7°C	21 35	01 41		[illegible]
24924	HD 220771	23 21.4	54 34	"	"	"	31.3	01 52	04 10		[illegible]W
	Focus Test	0.28									

ome Temp. 86°F
ocus 12.95
ome Temp. +75

Transparency Conditions Good - haze on horizon 77%

ding Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS				Quality
14	0 01W	+06 27	2-3	8.4	B7M.S	1-1-1	285	(Lound) / 30 secs B-TYPE STA. VEL. (Lood)	Sens 9	60 counts 5716 - 5776	fair
41	2 18W	+46 00	2-1-0	10.15	B0III	1-1-1	285	OB (Pg. 12)	Sens 10	5800 - 5923	fair
10	2 00 W	54 53	0-1	2.7	AsIb	1-1-1	" 2	"	" 9	5925 - 5989	fair
						4/3	" 9				

IBH in fog.

Sat Aug 15 1959
Cloudy, thunderstorm. Dg McCla
demonstrated telescope, showed film
on the moon to about 150 visitors.

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Date TUES-WED 1959 AUG. 18-19 Observer Bai-Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Angle Ind
24925	HD 172044	18 32.9	+33 23	I-12½	E10320	0.008	26.3C	20 10	20 15	2	SE
	"	"	"	"		0.008	"	20 16	20 24	4	SE
	"	"	"	"	"	0.008	"	20 27½	20 30	4	SE
24926	80+27° 3513	19 42.6	+27 48	"	"	0.008	26.4C	20 48	22 48	1	SW
24927	80+45° 3330	20 33.9	+45 47	"	"	0.016	26.3C	23 00	04 14	2	[illegible]
	[illegible]	0918					25.7				

Dome Temp. 74°F

Focus 12.95

Dome Temp.

Transparency Conditions Fair - HAZE ON HORIZON 180

Seeing horrible

2 3:45 SCATTERED LIGHT CLOUD IN N.W.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	[illegible] 51E	+33 26	0.0 / 0	5.4	B9 M.S.	2-4	Seq 5 B TYPE STD VEL Seq 5 5996 - 5998 (2 comp.)	[illegible]
[illegible]	[illegible] 40E	"	0-0	5.4	"	2-2-2	Seq 2 " " " " " 5999 - 6003 (4 comp.)	fair
[illegible]	[illegible] 36E	"	0 0	5.4	"	6	Seq 8 " " " " " 1 comp.	[illegible]
[illegible]	[illegible] 32W	+27 57	0-1	8.3	A2 Ia	2-2-2	Seq 5 SEEMED ABOUT MAG. 10 OB (Pg. 76) Seq 9 6005-6055 (60 comp.)	fair
[illegible]	[illegible]	+46 00	0-1	10.15	B0 III	1-2	Seq 2 OB (Pg. 12) Seq 10 6067-61 (120)	good
						4/3	0.2	

fair - R

181

Date WED-THUR 1959 AUG 19-20 Observer DH - McC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24928	HD 178849	19 05.1	+34 35	I·12	E1032·0	008	28.3°C	2310	2338	3
	Focus Test		OTB				27.8			

ome Temp. 76°F
ocus 12.95
ome Temp.

Transparency Conditions Cloudy, clearing at 2230
Cloud 2320

ding Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
338	2 04 W	+34 41	0	6.5	B4 8/6	2-2-2	B Std Set 5 Seq 6257-6257 MK Std Set 9? (Plate had been removed jumpk)	
							0115 Clouded out	
							= PH+6	
							Are clocks correct time?	
							Sat Aug 22 S. - La - Sr - Ba Cloudy - [illegible] time stars. [illegible] 8130, [illegible] [illegible] 25 wind at 10 [illegible] [illegible] [illegible] time. [illegible] [illegible] [illegible] [illegible] [illegible] demonstrate La - Sr demand [illegible] [illegible] [illegible] [illegible]	
							3100 sky completely overcast [illegible] found - continued cloud - [illegible]	

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Date Mon.-Tues. Aug 24-25, 1959 Observer Dg - McC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24929	BD +28° 3485	19h 44.9	+28° 34'	I-12	E103AO	.008 wt D16	31.2°C.	20h 45m	02 47	4
24930	HDE 235707	22 17.4	+55 03	"	"	016	30.0	01 [illegible]	02 36	
24931	BD +61 39	00 14.8	+61 55	"	"	"	30.0	02 48	03 28	
24932	HD 14134	02 12.1	+36 40	"	"	008	30.0	03 38	03 45	
24933	HD 19372	02 42.2	+36 40	"	"	"	30.0	03 59	04 32	
								04 03	04 09	
								04 10	04 20½	
	Focus Test		O.T.B							

ome Temp. 84°F

ocus 12.95

ome Temp.

Transparency Conditions Clear

1894

ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2 52 W	+28° 43'	1-0	9.1	B2V:n	1-1-3	Set 5 OB program Sens. 10 6301-6419	
							exposure taken with .008 slit, then set to .016	
	2 12 W	[illegible]	0	9.77	B0.5V:n	1-1-1	Set 5 OB page 17 Sens 9 6417-6477	
	1 03 W	+62 13	1	8.7	B0.5V	1-1-1	Set 5 OB page 24 Sens 8 6479-6502	
	0 37 E	+56 55	1-2	6.4	B2.5G	6	Set 5 F-STD Sens 5 2 comp's	
		+56 53	1	7.0	A5Ia	6	Set 2 MK STD Sens 6 1 "	
			0-1			—	Set 5 Star turned around 2 "	
	0 38 E		0-1			—	Set 5 to be a brilliant 4 "	
						8/6	Set 15½ yellow	
							2PH+4	

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Date TUES-WED AUG 25-26, 1951 Observer D.H. - McC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	
24934	HD 158962	17h 28m.2	+11 31	I-12	E103AO	008	31.2°C	20h 11m	23h 15m		W
24935	HDE 246400	22 17.4	+55 03	"	"	016	31.2	22 56	01 34	6	W
24936	BD+55 3047	22 21.5	+55 47	"	"	"	31.0	01 42	04 42		W
	Field Test		005								

Dome Temp. 82°F
Focus 12.75
Dome Temp. 75

Transparency Conditions Clear
0215 ground fog
0330 Seeing very good at times. Sometimes worst image in slit (S Tunnel)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	12h 46m W	+11 25	0-1	8.6	A?	2-2-2	KA 8x8 Set 5 Sens 9 6551 - 6601 (56 counts)	Good
[illegible]	11 W	+55 18½	var 0-1	7.77	B05V	1-1-1	OB p14 Set 5 Sens 10 6616 - 6726	[illegible]
[illegible]	16 W	+56 04	var 0-1	10.40	B05V	1-1-1 4/3	OB p14 Set 5 Sens 10 6726 - 6792	[illegible]
							Set 9 3PH-10	
						Mag. 28	MC -9.0 / SC +45.2 / MTW -5.4 / STW +32.4 / SW -23.4 / MG -1.0	

Date SAT-SUN 29/30th August Observer VB - McC Julian Day

Plate No.	Object	R.A. 1900 1950	Declination 1900	Inst.	Emulsion	Slit	Temp. Sens	Starting Time E.S.T.	Ending Time E.S.T.
919-98 9	57 Cyg	20h 51m 8	+44 14	Hγ	x 4	020	5/6	22h 19	
920-99	α Lyr	18h 35 6	+38 45	"	x 2	"	4/2	22h 40	
921-99	f Cyg	20h 58 4	+47 22	"	x 4		5/6	23h 19	
922-99	σ Cyg	21h 15 9	+39 14	"	x		6/6	23h 43	
~~94937~~	~~[illegible]~~								

Night 98 seems to have been omitted

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions Clear

00:15 Thick ground fog - haze coming in from south. Spectrophotometer working quite lots of extinction

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							irregular non repeatable profile - haze?	
				4.8	B5		hymy star? List B 1 A°/sec 2"/mm	
							this will check	
				0.04	A0V		conditions A " " good tracking	
		4°20		4.9	B8Ve		B " "	
		39°10		4.2	B9 Iab		not open - open ~~nebr~~ D	
							00:45: clouded out	
							Brown unplugged! Mr Jt Spreine	
			MC	SC	MTW	STW	SW ME	
	Aug 31.		-120	+50.6	-5.4	+29.9	31.4 +1.8	
							170 visitors - showed M13	
							one fellow said he viewed this	
							morning and wanted to see	
							anyhow - his name was not in the	
							book!	

1891

Date We/th Sept 2/3 1959 Observer [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24937	HD 229221	20h 20 1	+38° 11'	12"	103aO	016	26°C	21h 54m	02 04	Y
~~24938~~	30 60° 26 15	23 39.9	+61° 07'	12.5	E103aO	.016	26.0°C	02 22	02 29	
24937A	FOCUS 7 EST	0 T 0				.016				
→ CALLED 24938 on plate										

Dome Temp. 72°F

Focus 12.95

Dome Temp. 69°F

Transparency Conditions Hazy (QUITE) 190

02:00 CLOUD & MIST CREEPING UP FROM SOUTH.

02:30 COMPLETE CLOUD BLANKET

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 04	4 11.W	+38°21'	0/1	9g	B0:Ip	1+1+1	Ass III Cyg ⊙ Vizier Sec 106 Cyg – 6729 pos 5 Snow Field Sec 21637 6731-6934	
2 12		+61°25.5	0	9.2	B0.5Ib	1- 4/3	OB (Agg. 18 Pg 24) Sub 5 Sec 7 CLOUDED OUT	

1 P.H.+0

FLASHLIGHT BATTERIES GETTING LOW.

Date Thurs ~~Aug~~ Sept 3-4/59 Observer Hd - McC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	
	rHW C30										
24938	HD174886	18 47.6	-10 21	I-~~15~~ 12	E103aO	008	16.0	20 02	20 52	2	33
24939	HD178849	19 05.1	34 35	"	"	008	16.0	21 04	21 18	3	
						016		21 15	21 18		23
24940	BD+45°3406	21 03.0 ~~20 55.2~~	45 27 ~~45 58~~	"	"	016	[illegible]	21 33	00 12		NW
24941	BD+55-2748	22 21.5	+55 47	"	"	"	25.8	00 20	04 20	1	NW
24942	HD 14143	02 12.2	+56 43	"	"	008	25.8	04 33	04 43		NW
	Focus Test		GTB								

ome Temp. 74 F

ocus

ome Temp. 65

Transparency Conditions Excellent

nding Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	W 33m	-10 17	1	8.1	B3e	2-2-2	Set 5 Seq 8 6940. 6960	
		34 41	1	6.5	B4	2-4	" 5 Brighter comp Seq 6. 6965 6967	
	√ 42m					4.	" 8 " 6970 6973	
	140W	45 48	1	10.11	B5	2-1	OB p12 " 10 7093 7094	
	129W	+56 04	1-0	10 40	B0.5 V	1-1-1	OB p14 Set 5 Seq 10 7207 7208	
	100W	+56 58	0-1	6.4	B, sg	6 8/6	Bitd Set 5 Seq 7 Set 9	

4 PH + 4

7 flashlight meteors

Sept. 4	MG	SS	MTW	STW	SW	MG	S
	-14.0	-3.2	-56	-13.2	+12.3	-9.0	.004

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Date FRI-SAT Sept 4-5 1959 Observer DH - HV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24943	HD 192752	20h 09.7m	+38° 28'	I 12	E103a0	008	26.0°C	21h 50m	2204	1
	"	"	"	"	"	008	"	22 06	2226	
24944	HD 209900	20h 01.6	+53 01	"	"	016	25.7°C	22 52	00 08	2
24945	BD+53°2827	22 11.6	53 48	"	"	"	25.8	00 23	0323	* 3
24946	HD 14542	02 15.9	56 56	"	"	"		0344	0352	
24947	" 203-5	03 11.5	49 51	"	"	008		0412	0414	
	"					"	"	0416	0417	
	Moon set 0713					"				

Dome Temp. 73°F

Focus

Dome Temp.

Transparency Conditions

Scattered clouds [illegible]

Dense [illegible] replaced 21:30

* Star too faint to see in eyepiece.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS					Quality
[illegible]	0 38m W	+38° 37'	0	6.4	B0.5 I	2-2-2	Mk Std	Set 2	Sens 7	7268-72	4 cont	Very
[illegible]	0 50m W	"	0	6.9	"	—		Set 7	Sens 7	7274-82	8 cont	Very
[illegible]	0 41m W	+53° 17'	0 very 0-1	9.0	A0 I-II	1-1-1	Obs p20	Set 5	Sens 9	7289-7341	[illegible]	Very
[illegible]	3 46 W	54 55	0-2	10.6	B2 III	1-2	"	" 2	" 10	7356-7373		Guiding [illegible]
[illegible]	[illegible] 07 W		0-1	7.2	B=	2-1	B Standard.	" 8	7	7396-7371		[illegible]
[illegible]			2	5.1	B3	3-3?		" 2	" 5	2 cont		[illegible]
[illegible]	[illegible] 20 E	50 02		"	"	3-3		" 5		4 cont		[illegible]
						?/6		" 9				

1 PH in [illegible]

Note re 24944: At Cont 7324 small pilot light near prism went on. Apparently switch was not properly closed DH.

Date Sat - Sun Sept 5-6 1959 Observer Se Mai MS - Mai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24948	VW Cephei	20h 38.7	+75° 14'	I 12	E 103a O	.008	26.0 C	23h 35m	23 55	1
~~[illegible]~~	"	"	"	"	"	"		23 36	00 34	1
24949	o Cas	00 39.2	+47 44	"	"	"	26.0°	02 08	02 08	2
	"							09	10	
	"							11	14	
24950	HD 10497	01 37.3	+52 23	"	"	"	26.0 c	02 41	51	3
	"	"	"	"	"	"		52	56	
	"	"	"	"	"	"	"	57	03 17	
24951	HD 12953	02 01.7	+57° 57					03 23	29	4
								03 35	03 32	
								03 33	03 40	
24952	HD 15497	02 24.6	+57°.5	"	"	"	26.0C	03 56	04 06	1
	"	"	"	"	"	"	"	04 07	04 12	
	"	"	"	"	"	"	"	13	31	
24953	HD 21291	03 21.0	+59° 36	"	"	"	"	41	42	
	"	"	"	"	"	"	"	04 41	04 42	2

Dome Temp. +70° F
Focus 12.95
Dome Temp. +67° F

Transparency Conditions Good {150 people show & Hesc}

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	1h 58 W	+75 28°	0	8.1	G6K1	2-2-2	set 2. Ms VW program test exp. 10 counts Elkset 8	fair
	1h 38 W	"	1		"	2-2-2	set 5 Ms VW 20 counts EM set 8	
		+48 03	1	4.70	C2 V	2-2-2	Set 2 MK Sh. Sens 5 1 counts	strong
		"	1	"	"		Set 5 " " 1 "	fair
	0 11W	"	1	"	"	6	Set 8 " " 4 counts	strong
	0 08E	+52 40	1	6.9	F5Ia	6	Set 2 " Sens 7 4 counts 7471-7475	fair
	0 04E	"	0-1	"	"		" 5 " " 2 "	faint
	0 17W	"	0	"	"	6	" 8 " " 8 " 7479-7487	strong
	0 04W	+58 11	0-1	6.0	A2Ia	6	Set 2 " 6 2 " 7488-7490	fair
	0 18W	"	1	"	"		" 5 " 1 "	faint
	0 15W	"	0	"	"	6?	" 8 " 4 " 7492-7496	strong
	0 18W	+58° 27'	0-1	7.0	B6Ia	6	" 2 " Sens 7 4 " 7498-7502	fair
	0 24W	"	0	"	"		" 5 " " 2 " 7503-7505	faint
	0 43W		0	"	"	2-2-2	" 8 " 7 8 " 7506-7510	strong
		+59 46'	0-1	4.4	B9Ia	6	" 2 " Set 4 2 counts 16-18	strong
			0-1	"	"		" 5 " " 1 "	faint

Date Sat-Sun Sept 5-6 1959 Observer - Mai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Zone Angle Ind
24953	HD 212791	03 21.0	+59° 36	I-12	E103aO	0.007	26.0°C	04 44	04 45½	3	1000

Dome Temp. +70°F

Focus 12.95

Dome Temp. +67°F

Transparency Conditions Good

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 45	0000	+59° 46′	2·1	4·4	89Ia	2-22	SD 8 MK Std. 4 counts 7523 - 7529	Fair
				4P.H.+5			Finder Telescope out of alignment. Image way over to W in finder when on cross hair in Visitor's eyepiece.	
							No B.	
							One of MK std decl. precessions seems to be way off cf. HD 15497	
							Someone please develop the plates.	

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Date Sept 6-7, 1959 Observer [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24954	HD170010	18 22.2	+06 28	I-12½	E103a-O	0.008 0.016	28°.00	19 47	21 23	1
24955	BD+47°2442	21 25.0	+47 37	"	"	0.016	28°.20	21 53	03 45	2
24956	ADS 12620A	01 30.8	58 02	"	"	"		04 09	04 17	3
	"	"	"	"	"	"	28.3	04 18	04 30	4
	[illegible]		[illegible]B			"				

Dome Temp. 78°F

Focus 12.95

Dome Temp.

Transparency Conditions Fair Haze on horizon 200
Cloud to north
MIRD setting in over field

Some time was spent on changing position of finder telescope crosshairs using a bright star for the purpose. This rectified last night's situation

OPENED SLIT TO 00 AFTER 15 MINS (6 counts)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1	1 42W	+06 27	0-1	8.4	B7 M.S.	2-2	Sd 5 C TYPE STD. VEL. Sera 9 60 counts 7557-7597	Fair
3	3 W	+47 51	0-1-2	10.12	A Tab	1-1-1	" 5 OB (Pg. 12) Sera 10 120 counts 7600-7720	Fair
17			0-1	7.4	B5	3	" 2 B STD. VEL. " 7 7723-6 "	Fair/Poor
3	1 10 W	58 2.01		"	"	1-2	" 5½ " 7 7728-35 2 counts	Very Poor
						4/3	" 9	OK

1 PM. — [illegible]

MON-TUES

Date Sept 7-8, 1990 Observer DH - Hr (Ms) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Remarks
24957	BD+31° 3921	20h 00.3m	+31° 59'	J-12	E103aO	.016	28.8	19h 48m	20h 49m	
24958	HDE 235807	20 17.4	+55 03	J-12	"	"	28.5	21 00	23 14	
24959	HD 210809	20h 07.9	+51° 56'	"	"	.005	28.4	23 32	23 44	
	HD 210809	"	"	"	"	"	"	23 44		
24960	VW Cephi	20 38.7	+75° 14'	"	"	.016	"	00 28	00 50	
24961	HD 220771	23 21.4	5 43.4	"	"	"	28.9	01 16	03 16	
24962	" 138514	0209.9	56 36	"	"	"		03 43	03 47	
	"	"	"	"	"	"	27.0	03 48	03 58	
24963	HD 23338 9 Tau	03 39.3	24.0	"	"	"		04 24	04 40	
									04 53	
	Moon Test 0.2B									
	WE NEED NEW PROGRAM FOR 2nd HALF!									

Dome Temp. 81 °F

Transparency Conditions

0215 Clouds

Plus 12.95

Dome Temp.

Ending Time P.S.T.	Hr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS				Quality
	33 E	+32 01	0-1	8.8	B1Ib	1-1-1	OB Prog AM	Set E	Seq 9	7946 - 7968	
	17 E	+55 19	0	8.77	B0Sb:n	1-1-1	OB Prog PM	Set 5	Seq 10	7915 - 7925	
	22 W	+52 13	0	7.5	O9Ib	2-2-2	MK Std	Set 2	Seq 8	7944 - 7952	
	46 W	+52 13	0	7.5	O9Ib	—	MK Std	Set 7	Seq 8	7953 - 7964	
	02 W	+75 29	0	8.1	G6+K1	1-1-1	Ms VW prog.	Set 2	Seq. 8	7974 - 7994	
	241 W	54 51	0-1	8.7	A6Ib	1-1-1	OB	" 2	" 2	7996 - 8016	
			0-1	6.2	B1	3	B STD	" 2	" 6	8018 - 8019	
	[illegible]	54 51				3	"	" 6	"	8020 - [illegible]	
				4.3	B7		B STD	" 2	4	1 — [illegible]	
								5	"	½ — [illegible]	
	[illegible] E					3		7	"	2 — [illegible]	
						4/3		7		Comp. break all	
							IPH — [illegible]				

Date Tue-Wed Sep 8/9 1959 Observer MR (McC) — McC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24964	55 Cyg	20h 45.5	+45 45	I-12	103a-O	.08	31.0	21:39	21:49
24965	σ Cyg	21h 13.5	+38 39	"	"	"	"	22:18	22:40
24966	9 Cep	21h 35.2	+61° 38	"	"	"	[illegible]	22:48	23:02
24967	13 Cep	21 51.5	+56° 06	"	"	"	31.0	23:19	23:24
~~24968~~	~~ω² Aqr~~	~~23 37.5~~	~~-15 06~~					23:24	23:27
								23:28	23:39
24968	ω² Aqr	23 37.5	-15 06	"	"	"	31.0	23:54½	
									00:08
24969	HD 4694 Focus Tier	00 43.9	+64 05 OTB	"	"	"	"	00:42	01:34

Dome Temp. 84°F

Focus

Dome Temp.

Transparency Conditions very hazy

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	0 50 E	+45 55	2	4.89	B3 Ia	6s	set 2 1 count, set 5 4 counts, set 8 2 counts MK std	l str
[illegible]		+39 12	"	4.28	B9 Iab	6s–	set 2 1 count, set 5 2 counts, set 8 4 counts " "	fine
[illegible]			"	4.87	B2 Ib	6s	" " " " "	fine
[illegible]		+36 22	1	6.01	B8 Ib	—	2 1 count Sens 6 " "	fine (guiding)
[illegible]			"			—	S.15 1 count "	
[illegible]	0 37 W	~~+8~~	1-2			6s	8 4 "	
		-14 47	1	4.62	B9.5 V	—	Set 2 1 Sens 6 2 counts	good
						—	5 1	
[illegible]	3 4 E					6	7 4	
[illegible]	2 28 E	+64 23	12	8.9	B3 Ia	1-m 1	RC p=4 Sets Sens 7 8122 8190	ok
						4/3	Set 9	OK
							1 p.h. +4	
					Sep I.9		NC SC MTW STW SW NE S -15 +4.8 -1m 09s -1m +5.6 -3.9 +9.8	

LOS

Date Weds-Thurs Sept 9/10 Observer Hd – Hr Julian Day

Ms

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F.	Zone angle and
24970	VW Cephei	20 38.7	+75° 14'	12½"	IIa-O	.008	32°C	19:37	21 33		E
24971	HD 209296	21 57.2	56 14	"	103aO	"	31.0	21 48	23 14		W
24972	MWC 402 HD 223501	23 45.0	61 39	"	"	"	31.0	23 23	00 27		
24973	" 12302	01 55.6	59 12	"	"	"	31.2	00 43	02 53		
24974	" 20017	03 07.9	48 19	"	"	"	31.1	03 15	04 41		
				09B		"					

ome Temp. 82°F

ocus

ome Temp. +76

Transparency Conditions Hazy

0050 Fog
0108 Can't see out building
0320 Fog gone
Brilliant fireball Zenith SW to horizon 3s trail

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	10 E	+75° 25'	0	8.1	G6+K1	4-4-4	Set 5 for E. Dominion Obs 8 8194-8234	
	10 W	56 28	1	8.1	B(5)e	2-2-2	" 5 Be pong. " 8 8237-8255	fine
	025 E	61 57	1	8.2	B3e	2-2-2	" 5 " " " 8 8258-8278	l. str.
	11 E	59 27	0	8.2	B3e	2-2-2	" 5 " " " 8 8281-8301	
	32 W	48 32	0-1	7.9	B9nc	2-2-2	" 5 " " " 8 8304-8325	fine
						2/6	" 1	
							1 P.H. on pong	

Date Thu/Fri Sept 10/11 **Observer** vdB - [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24975	BD 47°3421	21h 25 0	+47° 37	32"	103aO	0 16	26°	20 45	23h 18	
24976	HD 13661									
	MWC 29	02 09.1	+54° 04	12½	E103aO	0.005	12.9C	03 16	04 04	
	FOCUS TEST		OTR				18.7C			

ome Temp. 62
ocus 12.95
ome Temp. 53° F

VERY WINDY

Transparency Conditions Cloudbanks

01:00 EST CLEAR SPOTS HERE & THERE
03:00 "
04:00 CLOUDS AGAIN & WIND

L08

ding Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3" 11	0h 50m W	+47° 50'	0→1	10 12	Aotab	41	OB program. finding SK 22 555	
							Exposure Terminated by Clouds	
							Spotter makes an odd RATTLING SOUND	
							0 pH.	
4-53		+54° 17'	0-1	8.6	Baine	2-4	Set 5 Be Prog. Lt comes from D Sens 9 8:40 - 57 Change	
						8/6	Set 9 CLOUDED OUT! 04:30	
							3 P.H. + 8	

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Date 7:-8:0 Sept 11/12 Observer [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
Test	β' Cyg	19 26.2	+27° 43'	I-12½	103-0	.008	17.5	20 57	[illegible]	1
"	β' Cyg	"	"	"	"	.016	17.5	20 56	20 58	2
Tests on [illegible]										
923-100	α Lyrae	18 35.6	38° 41				4/1	20 15		
924-101	α Cyg	20 [illegible]	+44 55				4/4	21 [illegible]		
925-102	α Cyg	"	"	"	"	"	4/4	23 [illegible]		
24977	HD 220771	23 21.4	+54 34	I-12½	103-0	0.016	14.4C	[illegible]	01 21	1
24978	HD 217811	22 58.2	+43 31	"	"	0.002	14.4C	01 30	01 36	2
	"	"	"	"	"	"	"	[illegible]		[illegible]
	"	"	"	"	"	"	"	11 34½	42½	2
24979	HD 4694	00 43.9	+64 55	"	"	.008 .016	"	02 00	03 00	3
24980	HD 13661 MWC 29	02 09.1	+54° 08	"	"	0.002	14.4C	03 13	39	4
24981	HD 15472 MWC 99	02 24.4	+70° 20	"	"	0.002	14.4C	03 54	04 30	[illegible]
24982	HD 24760 MWC 77	03 49.3	+44° 38	"	"	0.002	14.4C	04 40	05 16	[illegible]
	FOCUS TEST	OTO				0.008				

ome Temp. 60
ocus 12.95
ome Temp. +53°F

Transparency Conditions Clear 2nd HALF EXCELLENT

2 visitors church man

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ding Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	5c 24E	+27° 56'	0-1		K	nil	set 9½ [illegible] EM 4 [illegible]	
	5c 27E	"	0-1		K		set 10½ [illegible] EM 4 [illegible]	
				~~0.03~~				
				0.03	10"	30"	5200 - 3400 b.l. [illegible]	
				1.35	10"	30"	" "	
				0.03	10	30	[illegible] b.l. [illegible]	
	1 01W	+54° 52	0-1	28.7 29.2	A3I6	1-1-1	Sd5 OB (Pg. 22) Seq 9 8395-8457 (62 counts)	fine
	1 39W	+43° 50	1	6.1	B3M.S	6	Sd5 B TYPE STOVE Seq 6 8460 - 8462	fine
	"	"	1	"	"		Sd2 " " " " " ½ count	
	45W	"	0-1		"	6	Sd 8½ " " " " " 1 count (SLIT [illegible])	
	17W	+64° 24	1-0	8.9	B3I6	2-2-	" 5 OB (Pg. 24) " 9 8465-8536 (68 counts)	fine
	31W	+54° 20	2-3	8.6	B3Ne	2-2-2	" 5 Be Pg 8 FIELD CHECKS " 9 8541-8602	[illegible]
	1 05W	+70° 45	2	8.0	B4Ne	2-2-2	" 5 Be " " Seq 8 8606-8626 (20 counts)	[illegible]
	2 28W	+44° 46'	2	7.8	B3Ne	2-2-2	" 5 Be " " " 8 8627-8644 (17 counts)	[illegible]
						8/6	9	
							2 P.H. + O	

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Date Sat - Sun. Sept 12/13 Observer Hd / M.C - M.S Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F.
24783	VW Cepheei	20h 38.7	+75° 14'	12½	Eastman II a-O	.016	17.1°	23:50	00:24	
	"	"	"	"	"	.016		00 29	00 03	
	"	"	"	"	"	.016		01 23	02:11	
	"	"	"	"	"	"	17.3°	02 13	02 59	
	"	"	"	"	"	"		03:06	03 24	
24784	MWC 83 HD 21901 Focus test	04h 10.1	+45° 58'	12½	103a-O	.002 .003	17.3	03:56	04:36	

Dome Temp. 60° F
Focus 12.75
Dome Temp. 57 °F

Transparency Conditions Good after 23:00. 212
South at dawn

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2.54 W	+75° 27'	0-1	8-1	K1+G6	6-6-6	+1 Ms-VW prog Seq 8 5653-5685	
3.34 W	"	1	"	"	4-4-4	+2 " " 1682-5724	
4.42 W	"	1	"	"	6-6-6	+4 " " 5727-5771	
5.36 W	"	0-1	"	"	6-6-6	+6 " " 5780-5821	
6.55 W	"	0-1			6-6-6	+8 " 5822-5842	
0.29 E	+46 06	0-1	8.6	B3+e	2-2-2 12/8	+5 H Be prog Seq 9 3847-3907	

Clouds out and. Closed 4 45

1 P.H. +0

Date Sun - Mon Sep 13-14 Observer Se - H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T. (1)	Ending Time E.S.T. (2)	P.
926-101	α Lyr	18 33.6	+38 41	5200	3400		4/1	20 03	20:52	
927-101	α Del	20 35.0	+15 34	"	"		5/4	20 37	21:26	
928-101	1 Del	20 25.5	+10 34	"	"		6/4	21 21	22:10	
929-101	193182	20 13.8	+39 16	"	"		6/5	22 28	23:17	
930-101	α Cyg	20 38.0	+44 55	"	"		4/5			

Dome Temp. +58°F

Focus

Dome Temp.

Transparency Conditions Clear

214

Declination slow motion works intermittently.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. diaph.	REMARKS	Quality
		10"	0.13	A0I	30"	(1) signal tin mid trace (2) standard tin mid trace	
		10"	3.71	B9V	30"	uv at 5/5	
		5"	5.9	A0e	30"	Shell uv at 6/5	
	+39°26	10"	6.6	Ape	30"	Shell uv at 6/6 twice	
		10"	1.35	A2Ia	30"	Clouds.	
						0030 Solid Cloud. Looks & feels like snow!	
						1 PH in fog	

29 S

Date Tues Sep 15-16 Observer HL MS - Ryai Julian Day 2436827
© 172 15 13.9 3509.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
24985	VW Cephei	20h 38.7	+75° 14'	12½	Baked IIa-O	.016	11.7°	20.08	20.40	1
						"		20 41	21 11	
						"		21.12	21 : 46	
							11.6	21.57	22 28	
								22 28½	23 01½	
								23 05	23.38	
24986	"	"	"	"	"	"	11.2	23 39	00 1.5	2
						"		00 1[illegible]	00 54	
						"		0[illegible] 55	[illegible]1 26	
						"		01 27	02 02	
								02 03	0[illegible] 2[illegible]	
								02 51		

Dome Temp. 47°F
Focus 12.95
Dome Temp. +43°F

Transparency Conditions good.

L16

Sidereal Time G.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
4h	0:38E	+75°25'	0	8.1	K1+G6	8-4	set -1 M.V.W. prog.	exp 8	8914 8937 725	
11	0.08E	"	0	"	"	4-4-4	set +2		8937	
4½	0 26W	"	0	"	"	4-2-2	set 4 Reversed	spots	8964 8965 8990	
23			1			3-3-3	" 6	3 min.	8992	
0½			1			3-3-3	" 8		9017 9018 9043	
35	1 2 20		0			3-3-3	" 10		9044 9069	
5	2 5W	+75°25'	0			3-3-3	set -1	exp 8	9070 9075	
5	3 34W		0-1			3-3-3	" +2	Spots 6 min.	9095 9120	
2			1			3-3-3	" +4		9121 9146 9155	
2			0			3-3-3	" +6		9168	
2			0			3-3-	" +8 mostly taken 8 in cloud	02:09 CLOUDS RISES IN NORTH	9167 9177 9180	
3						3	" +10 LIGHT CLOUD			

CLOUDED OUT!

1 P.H. +0

217

Date Weds Thurs Sept 16/17 Observer rdB - La Julian Day 2436828
Ms Ms ⊙ 173 13 42.9 3510.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24987	VW Cephei	20h 38.7	+75° 14'	12½	baked IIaO	.016	11.0	19h 48m	20h 16m	
	"							20h 18m	20h 46m	
	"						9.8	20h 49m	21h 16	
	"						9.2	21h 18m	21h 50m	1
	"						9.8	22 15	22 37	
	"							22 42	23:13	
24988	"							23 18	23 45	2
	"						10.0	23 49	00 17	
	"							00 17	00 [illegible]	
	"						10.0	00 [illegible]	01:19	
	"							01:20	01:46	
	"							01:49	02:19	
24989	"							02 21	02 47	
	"							02 45	03 16	
	Focus Test					.008	10.5			

ome Temp. 43°F

ocus 12.95

ome Temp.

Transparency Conditions Fine

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
0h59E	75°25'	0	8-1	K1+G6	2+3+3	set-1 Ms VW prog.	slow 8 9199 9224	
0h30E		0+1			3+3+3	+2	224-249	
0h01W		0-1			3+3+3	+4	249-74	
0 35W		0			3+3+3	+6 ← reversed telescope	274-299	
1:24W	+75°26'	0-1			3+3+3	+8	312-337	
1:58W					3-3-3	+10	345-370	
2 35W					3+3+3	set-1	374-399	
3:04W					3-3	+2	9400-426	
3:3[illegible]					3-3	4	9437-463	
4:07W		1-2			3-3-3	6	479	
4:34W		2			3-3-3	8	479-507	
5:03W		1-2			3-3-3	[illegible]	507-532	
5:34W		1			3-3-3	set-2	534 [illegible]	
6:00W					3-3-3	5	560 556	
					12	8		
						110 plane are Tips close together!		

219

Date Weds / Thurs Sept 16/17 59 Observer La Julian Day 1115

Plate No.	Object	R.A. 1900 60	Declination 1900 60	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
931-102	35 Ari	02 41.1	+27 32	HY	X2	020	5/5	03:44	
932-102	HD. 21291	03 25.8	+59 49	HY	X2	"	5/5	04:12	
933-102	21389	03 26.7	+58 45	"	"	"	5/6	04:26	
934-102	H.R. 1046	03 27.0	+55 19	"	"	"	5/6	04:38	
~~935-102~~	~~16 Tau~~	~~03 42.5~~	~~+24 70~~	~~"~~	~~"~~	~~"~~			
~~936-102~~	~~17 Tau~~	~~03 42.5~~	~~+24 00~~	~~"~~	~~"~~	~~"~~			

Dome Temp. .....

Focus .....

Dome Temp. 39°F

Transparency Conditions good

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			5	4.58	B3 V	30"	Lost D M.R. 2"/m 1H°/sec	
		+59°48'	5	4.42	B9 Ia	"	" " " " " "	
		53°40'?	"	4.76	A0 Ia	"		
		55 16	"	4.98	A1 V	"		
		~~———~~	"	~~5.43~~	~~B7 IV~~	"	unable to find correct star before	
		~~———~~		3.91	B1 III		sunrise - field is necessary.	
		1 RH	+0					
		[illegible]						
		suggestion that the dec could be off by approx 5' - ha						
						Sept 18	MC -17 S +26.3 ME +7.4 S +25.7	

Date Fri-Sat, Sept. 18/19 Observer Ms — Mgi Julian Day 2436830

⊙ 175 10 46.5 3514.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24990	VW Cephei	20h 38.7	+75° 14'	12½"	Baker IIaO	.016	13.9°C	19 45	20:16
	"	"	"	"	"	"	"	20:17	20.29
								20:30	20.53
								20:53	21:08
							14.0	21:08	21:40
	~~Focus Test~~					~~.016~~			
24991	VW Cephei							22:15	22:31
								22 31	22 51
								22 52	23 10
								23 11	23:31
								23:38	23.50
24992								23 51	00 06
								00 06	00 27
								00 27½	00 42½
								00 50½	01 15
								01 04	01 24

(over)

Dome Temp. 51°F — Transparency Conditions — good 222

Focus 12.90 — Bright auroral arch seen across northern sky at 21:00

Dome Temp.

Starting Time G.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
.16	0:51 E	+75° 23' (?!)	0-1	8.1	K1+G6	3-3-3	set -1 Ms VW prog.	sens 8 9589 9614 >25	
29	0:38 E			-		3-3	+2	9615 9634 >15	
52	0:14 E					3-3-3	+4	9634-59 -25	
03	0:01 W					3-3-3	+6	9660-75 -15	
40	0:33 W					3-3-3	+8	9676-701 -25	
						16/12	~~+10~~ ← telescope reversed	~~9710~~	
5	1:25 W					3-3-3	set +1	9745-60 -15	
1	1:46 W					3-3-3	4	9762 77 -15	
10	2:03 W		1			3-3-3	6	9778-9803 -25	
.31	2:25 W					3-3-3	8	9804-9821 -27	
50	2:43					3-3-3	10	9838-9855 -20	
	3 01 W					3-3-3	-1	9862-82 -20	
27			1			3-3-3	+2	9883-9903 -20	
4.5						9	+4	9905-9925 -20	
						9	+6	9942-9962	
2	4/2 4 hrs		0			9	+8	9965-9985	

223

Date Fri Sat, Sept 18/19 Observer Ms Nagai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24993	VW CEPH	20 38.7	+75° 18'	12.5	BA-01 [illegible]	[illegible]	14° C	01 [illegible]	01 10
								01 11	01 26
								01 27	01 57
								01 58	02 15
								02 15	02 33
24994	VW CEPH							02 34	03 08
								03 09	04 06
								04 06	04 21
	Focus Test					.008			
24995	MWE 76 HD 239972	03 04.3	+65° 11	12.5°	E103aO	.009	14.0° C	04 41	05 25

Dome Temp. .....

Focus .....

Dome Temp. 48°F

Transparency Conditions Good

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10	05 05	+75° 25'	00	8.1	6	3-3-3	-1 Ms VW Proc 1985 - [illegible]	
			00			3-3-3	+1 [illegible] - [illegible]	
	5 53W		0-1			3-3-3	+4 0027 - 0047	
3			0			9	+6 0048 - 0068	
	6 28W					9	+9 0069 - 0089	
	06 48W					9	-1 0091 - 0111	
						9	+2 0112 - [illegible]	
	07 16W					9	+4 0133 - [illegible]	
						12/8	+7	
	1 08W	+63° 20	0-1	8.1	B3E	2-2-2	Set 5 Be Sen 8. 19 min 0160 - 0178	
							3 P.H.	
	Sept. 19 CLOUDY!! Mac				Large grp Many m.s. [illegible] Pt. [illegible]		Set from Sept 19 5 - Mag - Sta Shifting clouds 8 pm - 10 pm [illegible] 9 pm - 10 pm [illegible]	

225

Date Saturday Sept 14/20-54 Observer -Lx Julian Day 2436831
@ 176 09 21.4 3517.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
~~249923~~ *	O And	0 15.0	+39 28	HYX 4		20	5/6	00:55		
249956	HD. 13841	02 09.9	+56 34	I-12½	F103a	008	14.4°C	01:39	02:04	1
249946	13854	02 09.9	+56 36	"	"	"				

*see Oct 20/21
This record n.g.
and destroyed

Dome Temp. 51° F 01:00

Focus

Dome Temp.

Transparency Conditions only fair – actually very bad
Start delayed by light cloud
02:10 now cloud.

226

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		10	4.44	A2V	30"	M.R 1 A° /sec 2°/min Lict 2.	
0:36 E	+56° 49'	0	7.0	B0.5	2-2-2	sets B Standard Vd. Bragn. sens 8 80	fair
			6.2	B1		Clouded in solid.	

2 P.H.

Sept. 21 M.C. -.19 E.C. +35.5 M.E. +10.0 other watches stopped? In bed

where visitors?

227

Date Sept 24/25 th/Fri **Observer** [illegible] **Julian Day** 2436836

⊙ 181 02 48.0 3528.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
	=AI Cep								
24997	BD+56°2640	21h 43m.1	+56° 27'	12"	103aO	0016	22°c	19h 50m	23h 45m
24998	HD 12302	01 55.6	59 12	"	"	.008	22.0	00 22	01 34
24999	" 28424	04 23.9	13 41	"	"	"	22.0	01 58	04 54
	Moon 1st		9/13						

ome Temp. 65°F

Transparency Conditions Sun, Later Fine

228

ocus

0400 Hazy & Clouds gradually increasing, fine early morning.

ome Temp.

ing Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	[illegible]h 55m W	56 42	0	9.95	B0 SV	1+1+1	OB progr. 203 - 323	fair
[illegible]	[illegible] 30 E	59 27	0	8.2	B3e	2-2-2	Set 5 Be #8 338 - 357	fine
[illegible]	[illegible] 27 W	13 47	0	8.94	K2 III	2-2-2	" 5 Sc GHV #7 358 - 419	good
						8/6	" 9	a. sl. tow.

2 P.H. + 4 in DOME.

Hazy [illegible]

N.B. Position of image on Sl. T changed too much in focus [illegible] changed !!

229

Date Fri-Sat Sept 25/26 Observer Sc - DH Julian Day 2436837

0182 01 36.0 3530.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25000	HDE 239767	21 43.1	+56 27	T-12	F 103a0	.016	20.2°C	20:50	01:48	1
25001	BD 48° 897	03 16.0	+49 03	T-12	F 103a0	.016	[illegible]	02:10	03:44	1
25002	BD 47° 842	03 33.6	+40 19	T-12	F 103a0	.016	[illegible]	03:56	04:50	2
	Focus Test	OTB				.008				

ome Temp. 60° F

ocus 12.9D

ome Temp. [illegible]

Transparency Conditions 8:30 pm Clouds clearing 2 30

0030 [illegible] exp [illegible]

0104 [illegible] heavy [illegible] 2500 [illegible]

0300 [illegible]

ng Time S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	03W	56 41	0	9.95	Bas p II	1-1-1	Set 5 OB prog. Sens 10 Ex Mt. 110 counts 431-541	[illegible]
[illegible]	23W	+49 12	0	8.6	A0	1-1-1	Set 5 α Per Sens 9 50 counts 545-595	[illegible]
[illegible]	3[illegible]W	+47 28	0	8.7	A0	1-2	Set 5 α Per Sens 9 597-614 Clouded out [illegible] 17 counts	[illegible]
							Set 9	OK
							3 P.M. - 10	

231

Date Sun Sep 27-28/59 Observer Hd - L Julian Day 2436839

⊙183 59 18.7 3534.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25003	V W Cephei	20 38.7	75 14	I-25	E103aO	016	23.0	20 16	21 40	3
25004	HD 217312	22 54.8	62 32	"	"	016	23.0	21 49	23 3	4
25005	"	"	"	"	II-HD baked	"	23.0	23 03	00 45	2
25006	HD. 6343	00 59.9	65 26	"	E-103Ao	"	23.0	01 07	02 21	
25007	" 21650	03 24.6	41 25	"	"	"	23.0	02 33	03 27	2

Test of plate speed: Note that 25004, 25005, same star, same number of counts are almost equally dense. The 2nd a little weaker image, but the grain noticed better.

JAH.

Dome Temp. 69
Focus 15.53
Dome Temp.

Transparency Conditions

Sept 27 Changed to I-25 =
I 12 was Focus 12.90 Hct 20.25. I-25 set 15.53 Hct 23.15

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Delayed start - trouble with hand monitor	
1 08	75 25	1	8.1	K1 G6	2-2-2	Set 2. Ms prog. rem 8 617 667	good
12m	62 43	1	7.5	B0 IV	4-2	" 2 {Hd lin. on OB prog rem 8 669 729	good
55 W	"	1	"	"	2-2-2	" 2 " rem 8 729 789 790	good
25 W	65 43	1	7.1	B5 ep	2-2-2	" 5 Be Prog. " 8 850	good
06 W	41 35	1	7.2	B5 he	2-2	" 5 " " 8 856 887	good
						Clouds and fog closed up. 3 PHs + 6	

Sept 28	MC	SC	ME
	-19	+56.5	+16.0

Sept 30	MC	SC	MTW	CTW	CW	ME
	-19	+1m 2.2	-19	-15.4	+20.9	+1.0

233

Date Thurs-Fri Oct 1/2 1959 Observer Ms - (BK) Julian Day 2436843.
⊙ 187 55 11.0 3543.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25008	VW Cephei	20^h 38.7	+75° 14'	I-25	Baked IIa O	.016	18.4	19:37	20:31	2
	"	"	"	"	"	"	"	20:54	21:44	
25009	MWC 366 HD 203374	21 16.7	+61 25	"	~~103a-O~~	.008		22:16	22:31	
	"	"	"	"	103a-O	.016	"	22:32	23:06	
25010	o Cass	0^h 39.2	+47° 44	I-25	103a-O	.008	"	23:22	23:25	1
								23:25	23:30	
								23:30	23:43	
25011	VW Cep	20 38.7	+75 14	"	IIa O	.016	18.5	00:05	01 05	
	"	"	"	"	"	"	"	01 05	02 05	
25012F	MWC 82 HD 26420 Gemini	04 5.7	41 52	"	103 Ao	"	18.5	02 34		
						OTL				

Dome Temp. 63° F

Focus 15.46

Dome Temp.

15.56

Transparency Conditions Fair

234

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3.31	0:16W	+75° 24'	0	8.1	K1+G6	4-4-4	set-1 Ms VW prog sens 8 893 >40 933	good
44	1:34W	"	00	"	"	4-4-	5 " <telescope moved" 948 >23 971	good
3	37	+61° 43'	00				set 5 Be sens 7 975 cut off 979	too slow
0	:10W	+61° 43'	00	6.6	B0	3-3-3	set 7 Be 980 1005	fair
25	:53E	48° 06'	00	4.70	B2V	0	+10 MK Std sens 5 1009 1012	
30	:48E	" "	00	"		0	set 5 1012 >6 1018	good
45	34E	" "	00	"		9	1019 1031	
05	50W	75 30	0	8.1	K1+G6	4-4-4	set 2 Ms VW prog.	good
2 05	50W	"	"	"	"	4-4-4	" 8 " " "	
		41 57	0	7.6	B3neq	2-	" 5 Be prog. sens 8 1045 1052	
						8/6	Clouds, star gone at 03.00	cr. sel.
			Oct 3	MC -7.0	SC +1 16.8	MTIN -48.5	STIN -45.6 SW 10.9 2 PHs Reddened +4	
					ME -0.10			

Sat. Oct. 2, 1959.

SCATTERED SHOWERS. CLOUD 160 VISITORS

SHOWN TELESCOPE. FILM ON MOON. MR, Ryan

235

Date Oct 7-8-59 Wed-Thurs Observer 4th year Hd Students Julian Day 2436849.
⊙ 193 50 00.3 3554.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
25012	HD 184759-60	19 30.9	+29 14	I 25	E103a-o	008	17.9°C	19 10	19 32	1
							17.9°C	19 33	19 39	

Dome Temp. 62°F

Focus 15.95 - 0.09

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 44	+39 32	0-1	5.42	F5A0	2-2-2	set 2 thyrk's sim 6 1061 1072	
0 52		1	5.42		2-4	set 8 clouds 1073 1075	
						One P.H. in dome 4 plates in box in [illegible]	
					Oct 7	MC -21 SC +1M23.2 MTW 1M2.5 STW -1M8.3 SW +4.5 ME -7.0	
					Oct. 9	MC -22 SC +1M23.8 MTW -5.2 STW -1M12.1 SW +1.0 ME -2.9	

237

Date Fri Sat Oct 9-10 Observer Se - L Julian Day 2436851.

© 195 48 31.1 3558.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25013	HD 219113	23h 08.3	+02° 08'	I-25	E 103.0	set .016	+16°C	22h 32	01 12	
25014	" 9352.3	01 27.0	57 49	"	"	.008	17.3	01 40	01 53	
	"	"	"	"	"			01 53	02 34	
	"	"	"	"	"			02 34	03 38	
25015	" MWC 93 31293	04 49.4	30 24	"	"	.016	17.3	03 46	04 20	
25016	" MWC 139 44637	06 17.7	15 09	"	"	"	17.3	04 24	05 20	
	Focus Test			O	TB					

Dome Temp. +51°F
Focus 15.51 - 0.09
Dome Temp. + 47°F

Transparency Conditions Good

~~180~~ 250 R.A.S.C. shows Ring Nebula

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
2 55W	+02 25	0	8.7	G5	2-2-2	set 5 SZ Psc.	Seq 9 1050 1230	
22W	58 04	0	6.1	K0A0	6-6	set 1 Hynek's	Seq 6 238 242	
		"	"	"	6-6	" 5 "	" 6 242 250	
3 01W		"	"	"	4-4-4	" 9 "	" 6 250 264	
22W	30 28	0	7.5	A0ep	2-2-2	" 5 Be Prog	" 8 265 315	
05E	15 06	0	7.7	B3ne	2-2-2	" 5 " "	" 8 317 343	
					8/6	Clouds toward end. Star gone at 05.20 1 Plate holder loaded in dome		

Sat. Oct 10/59
V.B + Ha Showed about 90 vectors clip between 19:00-20:00 EST; Clouded in so second group was shown slides & lecture by V.B. about 300 vectors interpretation

239

Date Sun-Mon Oct 11/12 Observer M S Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
~~25017~~	~~HD 214623~~	~~02 13.3~~	~~+22 43~~	~~I-25~~	~~103a-0~~	~~.016~~	~~10.6~~	~~02.24~~		
Wed Oct 13										
25017 F_1	Focus Test	OTB		I-25	103a-0	0.008	7.5°C	18:35	18:40	
	"	"		"	"	"	"			
	"	"		"	"	"	"			
25017 F_2	"	"		I-25	103a-0	0.008	7.5°C	18:40	18:50	
25017 F_3	"	"		I-25	103a-0	0.008	7.5°C	19:00	19:10	
25017 F_4	"	"		I 25	103a-0	0.008	7.5°C	19:15	19:25	4
25017 F5	"	"		I 25	103a-0	0.008	7.5°C	1925	19 30	

Dome Temp. 41

Focus 15.27

Dome Temp.

Transparency Conditions Fair Oct 13. 20 students from III MAP Oct 5 & 6 — MR

240

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		O	64	A5-G		set 5 Hopeki's composites set 6 1382	
				Cloudo!		2 last night not even 1 count.	
					12/8	set 1 Focus set at 15.31 La-	
					"	set 5 " " " 15.33	
					"	set 8 " " " 15.35	
					12/8	set 1 Focus set at 15.33 C.R.P.	
					"	set 5 Focus set at 15.31	
					"	set 8 Focus set at 15.29	
					12/8	set 1 a5 " " " 15.36 J.H.S.	
						3 " " " 15.34	
						8 " " " 15.32	
					12/8	set 1 Focus set at 15.30 F.g.R.C.	
						set 5 Focus set at 15.32	
						set 8 Focus set at 15.34	
					12/10	Set 1 " " " 15.37 J R	
					12/10	Set 5 15.35	
					12/10	Set 8 15.33	

241

Date Wed Oct 14 1959 Observer 4th year students STS PGRC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25017F6	FOCUS TEST	OTB		I 25	103a-0	0.008	7.5°C	20.25	20.35
25017F7	FOCUS TEST	OTB			103a-0	0.008		20:40	20:50

Dome Temp.....

Prus.....

Dome Temp.....

Transparency Conditions.....

ing Time E.S.T.	r Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.35						12/10	AT I Focus 15.36 JHS	
							5 " 15.34	
							10 " 15.32	
0.50						12/10	set 1 Focus set at 15.30 PGRC	
							set 5 Focus set at 15.32	
							set 8 Focus set at 15.34	
					Sat Oct 17			
							Se, McC showed 120 visitors	
							61 Cyg & film in the room.	
							Closed in on both groups	
							1 PH in Dome.	

243

Date Sat/Sun Sept 17/18 1971 Observer Se McC - Ms Julian Day 2436859.
⊙ 203 43 47.4 3573.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25012	HD 4612-6	0042.0	51 33	1.25	E103a0	.007	9.0C	22:49	[illegible]:09

Dome Temp. 43°F
Focus 15.34
Dome Temp. 40°

Note: Sputter making erratically.

Transparency Conditions Clear about 10:00. Seeing very bad 244
1100 - clouds - N.W. 1130 - clear
Trend [illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10:48W	+21 52½	000 00	6.8	F8½	4-4-4	Hynek dets Sirius 8 1355 1412	good
					Clouds		
						2PH-0 in dome	

245

Date Tues-Wed 1919 Oct 20/21 Observer ML — HV Julian Day 2436862

⊙ 206 42 34.2 3580.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
935-103*	HD199478	20 54.4	+47 16	4γ × 4		set 20.	6/4	21:04	
936-103	ν Cep	21 49.3	+60 57	4γ × 2		set 20.	5/6	21:55	
937-103	ψ² Aqr	23 15.8	−9 24	4γ × 2		"	5/5	22:16	
938-103	ω² Aqr	23 40.6	−14 46	4γ × 2		"	"	22:31	
939-103	HD 1976	00 22.1	+51 48	4γ × 2		"	5/7	22:53	
940-103	γ Cas	00 54.3	+60 30	4γ × 2		"	4/6	23:25	
941-103	ε Cas	01 51.5	+63 28	4γ × 2			5/3	23:42	
25019	HD 19485	03 02.8	+25 13	I-25	E 1030.0.008		5.0	0039	0519
	9m.0 7.5		07B						

All night Sky 19/20
for duplicate of 935-103

Time Temp. 36°F
Focus 15.29
Time Temp. +3.1

Transparency Conditions excellent

246

HSH, RJN, Ms with Ast Ia ~70 students
showed M92

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+47° 16′	6″	5.76	B8 Ia	30″	List D. 4250.-4540. 1A/sec, 2″/min abs. lib. - at sl. ∠ 250	
	–		4.66	A2 Ia	"	" "	
	−9 46		4.65	B5 V	"	" "	
	−14 48		4.62	B9.5 V	"	" "	
	+51 45		5.2	B1 IV	"	List E "	
	+60 37		2.0	B0 IV e	"	" "	
	+63 25		3.18	B3 IV pe	"	List A, E "	
51 W	+25 26	OO	8.7	G0	4-4-4	Set 2 Spect. Bin. #9 1416- 1465	good
					5/10	" 8	or sl. +

1 P. H. + O

247

Date Wed. Thur 1959 Oct 21/22 Observer [illegible] Julian Day 2436863

⊙ 207 42 14.2 3582.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25020	VW Cephei	20h 38.7	+75° 14'	I-25"	Baked IIa-O	.016	5.5°C	18:22	19:28
25021	HD 196753-4	20h ~~36.9~~ 34.3	+23° ~~21'~~ 19'	I-25"	E10 IIaO	.008	5.5°C	19:52	20:40
"	"	"	"	"	"	.008	5.5°C	20:41	21:05
25022	HD 196753-4	20h 30.0"	34 54	I-25"	IIaO	.008	5.5°C	21:16	21:42
"	"	"	"	"	"	.008	5.5	21:43	21:56
25023	VW Cephei	20 38.7	+75 14	I-25	Baked IIa-O	.016	5-5	22:18	23:03
						ML	SC	ME	
					Nov. 9	-1.9	-1.6	-0.3	
						MC	SC	ME	
					Nov. 11	-.9	-8.8	-4.9	

Dome Temp. 41 °F

Focus 15:29

Dome Temp. 38

Transparency Conditions Deteriorating after ~ 21:30 248

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS					Quality
30m W		0	8.1	K1+G6	4-4-4	set-1	Ms VW	Completely Stationary	Sense 8	1467 1517 >50	fine
44 W	+23° 32'	0	6.1	K0 A3	4-4-4	set 2	"	"	Sense 6	1523 1531	
09 W	+23° 31'	0	6.1	K0 A3	4-4-4	set 8	"	"	Sense 6	1532	fine
52 W	35° 27'	0	4.85	K5A3	4-4-4	set 1	Pantin Cirrus	Providing	sense 5	1537 1549	fine
05 W	25° 06'	0	4.85	K5A3	4-4-4	set 8	"		sense 5	1550 1556	
4:07 W	75° 31'	0.1	8.1	K1+G6	4-4	set 0	Ms VW	THROUGH CLOUD	sense 8	1560 >25 1565	weak

Clouds. Closed up 23:30

1 P.H. + 0 in dome

	MC	SC	ME	S
Nov. 3	-17	-16.5	-5.9	-15.3
Nov. 4	-15	-19.4	-10	-12.7
Nov 6	-15	-22.4	-4.1	-15.4

	MC	SC	ME	S
Oct 23	-21	-5.3	-8.6	

	MC	SC	ME	S
0:45	-22	-9.7	-3.0	-12.7

Set Oct 24-59

	MC	SC	ME	S
0:7 20	-17	-12.1	-5.6	-12.1

150 mottling

Set Oct 31 [illegible]

M.R. "Ha" showed 100 vectors along Nebular + Lyra during 8-4 session - Cloud for 9:10 as after demonstration of 14" refractor on Solar System showed

WHAT KIND OF ENGLISH — LAWSCHESE!!

249

Date Sun-Mon Nov 15-16 '59 Observer Sc — Julian Day 2436888
⊙ 232 44 37.0 3627.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25024	HD 221830	23 30.4	+30 27	I-25	E 103aO	set .008	+26	18 55	20 52
25025	HD 11592	1 48.7	+18 08	"	"	"	"	21 13	(21 30)

Dome Temp. +31° F

Focus set 15.26

Dome Temp.

Transparency Conditions Clear

250

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2h 9m W	+30 49	00	7.44	G2V	4-4-4	set 5 Se HV | Mk 8 Stds Ex Mk 1664 -	(Pro-tel) good
	+10 24	0	7.24	F5V	4-	set 5 Se HV | Mk 8 Stds 1720 -	Too weak
						CLOUDS.	
						1 PH +1 in Dec.	
						Spectra out of commission	

251

Date Tues-Wed 19:9 Nov 17/18 Observer MR-L Julian Day 2436890.
0234 45 33.0 36395

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F.
~~942-104~~		h m						19:50		
942-104	53 Cas	02 00.0	64° 12'	HR x2	3 times	chd .020	6/3	20:58		
943-104	HD 12453	02 05.8	58 11	HR x2	3 "	"	6/4	21:50		
944-104	~~8 Per~~	02 15.1	57 43	HR x2	2 "	"	6/6	22:47		
945-104	HR 1172	03 46.0	23 18	HR x2	3 "	"	6/3	23:33		
25026	HD 34291	05 16.8	37 35	I-25	E-103a0	.016	-7.4	00 46	01 46	6
25027	" 45314	06 21.6	14 57	"	"	"	-7.4	02 56	03 48	3
	Trans Foci				OTB					

Dome Temp. 16°F
Focus 15.13
Dome Temp. 19°F

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Hazy clouds.	
	+64° 12′		5.62	B8 Ib	30″	Fil D 4250–4540	1A/sec 2″/mm
	+58 10		5.10	A7 Ia	"	" "	(2nd power failure
	+57 43		6.09	B3 IV	"	" "	21:05)
	+23 17		5.44	B8 V	"	" "	(∴ clocks are wrong)
							- RA fast within 2 mins
						Exposure meter counter failed	- flashlight not used
							- Dec clamp stuck
0 06E	37 37	0-1	7.4	Bone	2-2-2	Fil 5 Be Prog.	1752-?
0 51W	14 54	0-1	7.1	Bone	2-2-2	" 5 " "	
					8-6	Clouds from West	
	MC SC	ME	S			3 P.H.s loaded +8 in dome	
Nov. 18	-3.0 -38.6		-36.4				
						Trouble with R.A. guiding and setting	

255

Date Thurs. Nov. 19-20/59 Observer L- Julian Day 2436892
⊙ 236 46 35.7 3633.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
25028	H.D. 195407	20 26	36 39	J-26	103Ao	.016	-1.0	18 25	19 49	
25029	" 217512	22 54.8	62 32	"	"	"	-1.0	19 51	20 33	
25030	" 225095	23 58.3	55 00	"	"	"	-1.0	20 40	21 34	

Dome Temp. 28°F

Focus 15.21

Dome Temp.

Transparency Conditions Fair

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
45 2 55 W	36 50	0	7.7	B3e	2-2-2	Set 5.	Be prog, Ser 8 (1981 - 2031)	[illegible]
33 10 W	62 51	0-1	7.5	B0 [illegible]	2-2-2	" 5	OB prog " (2034 - 2084)	fair
34 07 W	55 18	0-1	7.6	B1e	2-2-2	" 5	Be prog, " (2088 - 2038)	fair
							Clouds, sky thickening	
							Closed at 10:30	
							4 P.H. c loaded	
							Plates needed.	
					Nov 20	MC -1.0	SC -41.1 ME -1.5 S -37.6	

257

Date Sun Nov 22-23/59 Observer Hd Julian Day 2436895.
⊙ 239 48 22.5 3639.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
25031	HD217312	22 54.8	62 32	I.25	E103a-O	016	+5.1	20 47	22 09	3

Dome Temp. 39 F

Focus 15.29

Dome Temp.

Transparency Conditions Clouds rolling; [illegible] 258

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 2 58	62 53	0	7.5	Bo V	2-2-2	Sc 5 Hd Binary Sens 8 2151 2151 Clouds and fog . . Closed	good
						MC SC ME S	
						+7 -56.2 -6 -42.1	
						MC SC ME S	
						+8 -55.8 -3 -42	

259

Date Sat/Sun Mar 20/29 **Observer** B - La **Julian Day** 2436901
0245 52 41.5 3648.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25032	HD 219113	23h 08.3	+02° 08'	15"	1020	1016	0°	18h 14m	20h 45m	1
25033	19485	1h 02.8	+25° 11'	"	"	"	0°	21h 05m	01 29	1
25034	35600	5h 20.8m	+30° 07'	"	"	"	0°	~~01h 55m~~		2
"	"	"	"	"	"	"	"	02 27	02 27	
25035	4' Aur	6h 42.1m	+49° 20'	"	"	"	0°	03 07	03 19	3
	"	"	"				0°	03 19	03 37	
25036	β CNC	8h 11.1m	+9° 30'	"	"	0.008	0.0°	03 36	03 39	4
								03 39	03 42	
								03 42	04 00	
25037	HD 91595	10h 31.9m	60° 35'	"	"	0.008	0.0°	04 09	05 31	5
25038	AD 52969	8h 30.5m	+62° 39'	"	"	"	0.0°	05 20	06 35	6
	Ø 3 Ø 1.6	5.0								

Dome Temp. 30°F

Focus 1531-2 1272

Dome Temp.

Transparency Conditions fine

260

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
(1h 50m W)	[illegible]	0	8.7	95	2+2-2	=SZ Psc. 2204 [illegible]	good
2 33m W	[illegible]		8.7	50	2+2+2	S R 2254 - 2304 sens 8	good
	29 54'					(WRONG STAR - at set 2)	
	~~30 05~~	0	5.7	[illegible]	2	set 2 MK Std 2317 - sens 8	
1 47m W	30° 10'	0	5.7	[illegible]	2-2-	set 5 M.K. Std 2328 - 2338 sens 8	fair
	+49° 17'	0-1	5.1	[illegible]	2-2-2	set 2 M.K. Std. 2380 - 2403 sens 7	[illegible]
1 16 W	"	"	"	"	0	set 5 2403 - 2418	good
			3.76	[illegible]	0	set 2 M.K. Std 3 seconds sens 4	Bad plate
					0	set 5 1½ seconds	Taken [illegible]
					12	set 9 2 seconds	Guess?
1 30E	+60° 18'	0-1	7.37	F9	1-4-4	set 5 Lyn Benny 2437 - 2487 secs 5	fair
1 17W	160° 23'	0-1	7.54	G5	1-4-2	set 5 PHETON [illegible] 2582 - ? sens 8	fair
	[illegible]					opened slit to [illegible] to get	
	[illegible]					[illegible]	
	[illegible]					[illegible]	
	[illegible]					[illegible]	
	[illegible]					[illegible]	
	3 or 4 counts					S.P.H loaded	

267

Date Sun-Mon Nov 29/30 Observer MS Julian Day 2436902.
⊙ 246 53 30.0 3649.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25039	VW Cephei	20 38.7	+75 14	I-25	Eastman Ha-O	.016	-4.0	17.37	18.23
"	"	"	"	"	"	.020	-3.7	18:30	19:10
"	"	"	"	"	"	.020		19:10	19:44

Time Temp. 23°F

Focus 15.17

Time Temp. 21

Transparency Conditions Good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:01W	+75 28	0	8.1	K1+G6	4-4-4	Set-1 Ms VW prog. Alne. 8 2663 40 2603	
:47W	"	0	"		4-4-4	set 4 " " 2605 45 2653	
:21W	"	0	"	"	4-4-4	set 7 " " 2655 34 89	
						Clouds and snow	
						3 P.H loaded	
						Integrator counter sticks occasionally.	
					30	MC +12 / SC -57.2 / ME -4.9 / S -44.1	

Date Thurs-Fri Dec 3/4 Observer Ms - Hv Julian Day 2436906.
© 250 56 55.2 3653.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25040	VW Cephei	20 38.7	+75 14	I-25	Baked IIa-0	.020	+4°C	17:51	18:35
								18:37	19:23
								19:27	20:05
							+4°	20:05	20:45
25041	VW Cephei	"	"	"	"	"		20:46	21:36
								21:36	22:21
25042	HD 14262-3	02 13.3	+22 43	I-25	103a-0	.008	+4°C	22:45	0008
25043	HD 33232	05 03.7	40 53	"	"	"	3.7°	00 33	0400
	[illegible]								

Dome Temp. 39°F

Plus 15.265

Dome Temp. 33

Transparency Conditions Good (for z ≤ 60°!)

ing Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
35	:28W	+75°27'	0	8.1	K1+G6	4-4-4	set-1 Ms VW program Accu. 8 2905 2955	
50	:16W		0			4-4-4	set 4 ? 2956 2956 50	
:05	:58W		0-1			4-4-4	set 7 2807 2857 50	
45	:35W		0-1			4-4-4	set 10 2858 2905	
36	:27W		0			4-4	set-1 2909 2957 40	
21	:14W		0			4-4-4	set 11 Counting stars in slope? 2950 2980 20	
[illegible]	[illegible]	+22.58	0	6.4	A5 G	4-4-4	set 5 Hyrch composite Accu 7 2955 3005 40	
[illegible]	3:14W	40 52	0-1	8.1	B3e	4-4-4	" 2 Se Shell " R 3007 3041	
						15/10	" 3 [illegible]	
							[illegible]	
							[illegible]	
						Dec 4	MC +16 / SC -1m 1.6 / ME -5 / S -46.3	
						Dec 7	MC 119 / SC -1m 6.2 / ME -6.5 / S -42.5	

Date Tues-Wed Dec 8/9 1959 Observer MR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
946 -105	ADS 16472A	23h 00.9m	+43° 58'	48 x 2	2 times	.020	6/5	19:26	
947 -105	ADS 36A	0 02.7	+58 18	"	"	"	"	20:03	
948 -105	23 Jan	3 44.0	+23 47	"		"	5/5	21:45	

Dome Temp. 30°F

Focus

Dome Temp.

Transparency Conditions excellent at first

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+43°51′		6.3	B3	30″	List C 4250–4560 1A/sec, 2″/min	
	+58 18		6.5	B3	"	" " "	
				B6 II	"	List D clouds	
					Dec. 9th	MC +26 / SC −1M 8.4 / MC −6 / S −50.1	
					Dec. 11th	MC +22 / SC 1M 10.2 / MC −29 / S −50.7	

Sun-Mon Dec 13/14. Fair, clear but rain rec'd after obsn. Dome won't open. 9PM.

267

Date Mo/tu Dec 14/5 **Observer** vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25044	S2 Psc	23h 08m	+02° 08'	25"	103a0	016	-1°C		

ome Temp. 33°F

Transparency Conditions Cirrus

ocus 1530-9=1521

ome Temp.

ing Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				8.7	95			

269

Date Thur.-Fri. Dec. 17-18 1959 **Observer** DH **Julian Day** 2436920.
⊙ 265 10 31.9 3663.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25044	HD 217312	$22^h 54^m.8$	+62 32	I-25	103a-O	016	+4.8°C	18 47	20 07
	Focus. Test	OTB				008			

Dome Temp. 37° F

Focus 1538 − 0.09 = 15.29

Dome Temp. [illegible]

Transparency Conditions Poor to fair but going to pieces
Strong wind

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2h 35m	+62 49	0-00	7.5(?)	BOV	2-4	H bin on D3 Set 5 Sens 8 3050 3060 } 16	Very weak
		Set 9			10-7	Cloud and South Pier limit this exposure	
						HA = 2h 35 W is almost the west limit for this star	
						2015 - cloud covers most of sky	
						4 P.H + 1 Dox	
					Sec 18	AC/+29 SC/−1m 17.7 AC/−4 S/−1m 16.3	

271

Date Sat-Sun Sat. Dec. 11-12-1959 Observer [illegible] Julian Day 2436922.
0267 12 40.1 3665.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25045	3 Gem	6h 03.7m	+23° 08'	[illegible]	103a-0	016	-1.8°C	01:00	01:50
25046	6 Gem	6h 16.3m	+22° 56'	"	"	"	-1.8°C	01:55	04:32
	77 OB					008			

Dome Temp. 18°F

Focus 15.20

Dome Temp.

Transparency Conditions fair

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h 16m W	+23° 07'	0	5.76	B2.5 Ia	4-2-2	set 2 MK 5 Ia. scan 3 3069 3109	fair
3h 07m W	+22° 54'	0	6.30	M1 Ia	2-2-2	set 2 " scan 8 3109 3140	weak
						clouded out.	
					10/7	set 9.	
						One set of dome lights not working La	

273

Date Night Dec 21/22 1959 **Observer** [illegible] **Julian Day** 2436924.
0269 14 51.4 3666.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25047	HD194685	3h 07.8	+75°13'	25"	103aO	[illegible]	-7°C	22h [illegible]	0214
25048	" 56224	07 11.1	26 33	"	"	"	-7°	0243	0627
	Dec. 95	0°2							

ome Temp. 12°F

ocus .13

ome Temp. +5°F

Transparency Conditions Cirrc

ing Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	45 0 W	+11°23'	00	87	90	4+4-4	8.B #9 3140 - 3160	fair, cirrus
687	455 W	26 26	00	2.42	K1 III	4-4-4	Set 2 Se-GHV #9 3163	fair, cirrus
						15/10	" 3	
							2 RH + 10?	

275

Date Tues Wed 1919 Dec 22/23 Observer MK La Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
949-106	53 Cas	02 00.0	+64 12	HR	X2	020	6/3	19:16	
950-106	HD 12953	02 05.8	+58 11		"	"	6/4	19:39	
951-106	~~8 Tri~~ HD 13529	02 15.1	+57 43		"	"	5/6	20:07	
952-106	HD 21291	03 24.8	+59 41		"	"	5/5	20.33	
953-106	HD 21389	03 26.7	+58 45		"	"	5/6	20:54	
954-106	HR 1046	03 27.0	+55 19		"	"	"	21:18	
955-106	ε Per A	03 55.2	+39 54		"	"	4/6	22:16	
956-106	21 Jan	03 43.6	+24 24			"	5/7	22:41	
957-106	27 Jan	03 46.8	+23 56		"	"	5/3	22:57	
958-106	HR 1183	03 [illegible]	+23 35			"	6/3	23:25	
959-106	20 Jan	03 43.5	+24 14	"		"	5/4	23:51	
960-106	23 Jan	03 44.0	+23 49			"	5/5	00:55	
961-106	HD 23972	03 26.8	[illegible]	[illegible]	HR 60A	540	6/5	01:35	
962-106	HR 3300	08 53.1	-03 47	HR	X2	020	7/4	02:40	
963-106	η Hya	08 41.1	[illegible]	HR	[illegible]	"	5/5	03:38	
964-106	ι Leo	10 08.[illegible]	+16 [illegible]	HR	XL	"	5/3	04:50	

ome Temp. +9°F

ocus

ome Temp.

Transparency Conditions Some wisps in W during at summit — seem to have gone entirely,

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			5.62	B5 Ib	30"	List D	U2152-4560 1 Aff, 1 Pa
	+55°13'		5.50	A1 Ia	"	"	Had to reset from dayroll
	+57 47		6.09	B3 III	"	"	& chart & sight 04 [illegible]
	+59 44		4.42	B9 Ia	"	" 2 times	
	+58 40		4.76	A0 Ia	"	" 2 times	
	+55 16		4.55	A1 V	"	" 2 times	
	+35 54		2.71	A0 Ib	"	List A 2 times	
	+24 25		5.85	B5 V	"	List D	
	+23 55		3.80	B8 V	"	" 2 times	Dec [illegible]
	+23 35		6.16	B9 V	"	" Suff. 2 times	Diffused - slightly [illegible]
	+24 14		3.82	B1 III	"	" " 2 times	
	+33° 29'		4.46	A0 Ib	"	" "	
			—	—		Planetary Nebula	U2060-5060 m 6.5
							U2152-4442 m 6.7
	-03° 46'		3.95	A0 V		List D 2 times (wrong [illegible])	
	[illegible]		3.[illegible]	[illegible]		" " " "	
	[illegible]		3.6	A0 Ib		" " " "	

277

continued

Date Tues - Wed Sept Dec 22/23 Observer -La Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
965-106	30 Leo	10 28.3	-0° 26'	48	X2	020	5/6	04:20		
966-106	ρ Leo	10 30.6	+09° 31'	"	"	"	5/4	04:45		
967-106	θ Leo	11 12.1	+15 39	"	"	"	5/3	05:09		
968-106	β Leo	11 46.9	+14 49	"	"	"	5/1	05:35		
969-106	β UMa	10 59.4	+56 36	"	"	"	5/1	06:09		
970-106	γ UMa	11 56.5	53 54	"	"	"	5/1	06:35		

Dome Temp.....

Focus.....

Dome Temp. 60°F

Transparency Conditions very good.

ng Time S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		−0° 29′		3.6	A0-b	30″	MR 14°/sec 2″/min Lost Dec	
		+19° 29′		3.11	B, Ib	"	" " " "	
		+15° 37′		3.19	A2V	"	" " " "	
		+14° 46′		2.21	A3V	"	" " " "	
		+56° 34′		2.51	A1V	"	" " " "	
		+53° 55′		2.43	A0V	"	" " " "	

3 times from first at 7.10

Dec 23	MC +37	SC −1m 22.8	MC 0 C	S −1m 30.6
Dec. 30	MC +47	SC −1m 33.5	MC −6	S −1m 30.7

A very severe ice storm on Dec. 26–28 (many trees broken) Shutters not cleared until Jan 1. Night of Dec 31 – Jan 1 was clear.

279

Date Jan 1-2 Fri-Sat Observer DH Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25049	HD 19425							19 05		1

Dome Temp. 129°F

Focus 15.30 - 0.04 = 15.26

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0	8.7	4		~~Spec Bin Set 5 Seq 3244 23h 1m~~	
						7/5 Cloud - Exposure Stopped plate destroyed	
						2:00 thin cloud from South East	
						3:00 thick cloud " " "	
						(Ka - mcc)	
						1 PH + 10?	
					Jupiter	MC -.6 / SC +.12 / MC -.8 / S -.7	
						Note Clocks were wrong - Sidereal Clock reset approximately, standard time clock not touched	

281

Date Mon Jan 4-5/60 Observer L-Hv Julian Day 2436938.
⊙ 283 39 29.7 3669.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25049	HD 19485	03 02.8	25 13	I-25	E-103A	5 arc 008	-5.0	20 27	0027
25050	HD 65583 Rom Tet	07 54.3	29 31 07 12	"	"	"	-5.0	02 11	0529

Time Temp. 20°F

Focus 15.20

Time Temp.

Transparency Conditions

Clouds after openning, waited

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
352W	25 25	O	8.7	Go	4-4-4	Set 5	Great Bin #8 3308-3326 0010 Clouds 0025 Star Gone	Good
410W	+29 21	O	7.7	G8.7	4-4-4 15/10	" 2 " 8	Se-HV #8 3331-3342 Haze + Cloud throughout exposure	Good

1 P.H + 8

	MG	SC	MG	S
Now:	-2	-4.9	-1.6	-2.6

283

Date Wed-Thur Jan 6-7/60 **Observer** Dil - Hr **Julian Day** 2436940.
⊙285 41 48.8 3669.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25051	HD 43244	6 10.1	+46 28	I-25	1030-0	008	-5.5	2355	0033
25052	" 52822-3	06 53.6	3744	"	"	"	-5.4	0050	0158
	Non Det		07B						

Transparency Conditions

Dome Temp.

Plus 15.24 - 0.27 → 15.15

Dome Temp.

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.33	1105W	+4625	0-1	6.5	F0	4-4-4	Set 5 Hydrek Comp. Seq 7 3356 - 3372	fair
1.15	2143W	3736	0-1	6.6	F5	4-4-4	" 2 " " " 3376 - 3392	fair
						15/10	" 8 Clouds.	poor

3 P.H + 4

Jan 5	MC -3	SC -6.6	MTW +5.11	STW +37.2	SW +0.7	MC -2.9	S -3.3
" 1.11	MC -.5	SC -10.2	STP_b	STP_b	STP_b	MC 1.0	S -7.0
Jan 13	MC +8	SC -12.0	MTW +7.5	STW +21.7	SW 12.5	MC 0.0	S -9.8
Jan. 15	MC +11	SC -14.1	—	—	—	MC +4	S -11.9
Jan 19	MC +14	SC -16.4	MC 0.0	S -16.2			
Jan. 20	MC +17	SC +11	MC -1	S -6.0			

285

Date Wed-Thurs. Jan 1960 Observer MS Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
	Rayan 85 2-3650	3 36.9	+42 18	I-25	1030	.008	-3	19:15	19:33

me Temp. + 23° F

cus 15.28 − .09 = 15.19

me Temp.

Transparency Conditions Good

Set on Cass to check clock and focus.

ending Time E.S.T.	ar Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							~~0 8 06 48V~~ set 8 3423 24	
							Clouded out immediately after beginning - plate thrown away	
							2 P.H. + 4	

			MTW	STW			
Jan 22	ME +19	SC 0.6	MTW +22	STW +13.1	SW +1.8	ME -1.8	S -8.3
" 25	ME +23	SC -2.7	ME -13	S -10.6			
" 27	ME +15	SC -3.4	ME -2.9	S -13.2			
" 29	ME +29	SC -4.0	ME -3.0	S -15.4			
Feb. 1	ME +33	SC -4.8	ME +2.0	S -18.4			

287

Date Mo/Tu F.o 1/2 1960 Observer SvB-Hr Julian Day 2436966.
0 312 09 19.0 3653.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25053	48° 907	3h 18.0	+60 55'	25"	103a-0	.208	-1	20 55 EST	00 25
25054	HD 81192	09 19.1	+20 13	"	"	"	-2.5	00 44	03 38
25055	" 122563	13 57.6	+10 11	"	"	"	-2.6	04 10	06 32
	Trans 1st		OTB						

ome Temp. - 1½ C??

ocus 15.20

ome Temp. +5°F

Transparency Conditions Fine

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
53/W	49°05'	0	82	A	4+4+4	α Per Progr. 42c	
244W	+19 52	000	7.50	G8 III	4.4.4	λ+2 #8-3433- SE-GHV	
101W	+09 54	00	7.10	G0 VI	4.8	" 2 #7-3450 Se-HV	
					15/10	" 8	
						1 P. H. + 2	

Date Tues-Wed Feb 2/3 1960 Observer MR – Hr Julian Day 2436967.
⊙ 313 10 12.6 3652.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
971-107	20 Jan	03 43.5	+24 14	HR×2		.020	5/4	19:19		
972-107	23 Jan	03 44.0	+23 49	"		"	5/4	19:36		
973-107	HR 1173	03 [illegible]	+23 35	"		"	6/4	20:04		
974-107	20 Jan	03 43.5	+24 14	"		"	5/4	20:34		
975-107	ε Per A	03 55.6	+39 54	"		"	5/2	20:52		
976-107	ν CMa	06 43.4	−16 40	"		"	3/4	21:33		
977-107	χ² Ori	06 01.6	+20 09	"		"	6/2	22:35		
978-107	[illegible]	06 23.8	+17 50			[illegible]	4/7	23:30		
25056	HD 65583	07 54.3	+27 31	I-25	Eimac-0	.008	−9.5	0030	0410	
25057	" 104321	11.56.1	+12 56	"	"	"	−9.7	04 47	0641	
	[illegible]	[illegible]	[illegible]							

Dome Temp. 12°F

Focus 15.10

Dome Temp.

Transparency Conditions

Both tubes in Bausch & Lomb out - fed in bulb from spectr. room & counter

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+24 15		3.86	B7 III	30"	4250–4320 (Hβ below)	Lost D
	+23 48		4.16	B6 III	"	" 2 times	"
	+23 37		6.16	B9 V	"	" " "	"
	+24 15		3.86	B7 III	"	" again	"
	+39 51		2.96	B8 III	"	"	"
	−16 39		−1.41	A1 V	"	" 4 times	"
	+20 06		4.71	B2 Ia	"	" 2 "	"
	+17 50					4800–5100	fuzzy – I could see the spectrum
45W	29 19	0	7.70	G8 V	4-4-4	Set 2 Se-HV #8 3466 3495	in the 2nd again
31SW	+12 37	0	6.93	A0	4-4-4	" 2 KA-Rs #7 3497–	good
					15/10	" 8	

H. H. Kendal

Photo [illegible]

	NC	SC	NE	S
Feb 3	+35	-6.0	-2.9	-21.8

Date Wed. Feb 3-4/60 Observer L-Hr Julian Day 2436968
⊙ 314 11 04.8 3650.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
25058	BD 50° 738	03 13.1	50 37	I-25	E 103A	Set 008	-4.0	18 26	19 30	3
25059	HD 26420	04 05.7	41 52	"	"	"	-4.0	19 38	21 48	5
25060	" 65077	07 51.9	03 14	"	"	"	-4.0	22 10	00 12	1
25061	" 88725	10 18.9	03 39	"	"	"	-3.9	00 21	05 13	[illegible]
	[illegible]	[illegible]	[illegible]							

Dome Temp. 24°F

Focus 15.17

Dome Temp.

Transparency Conditions Good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 48W	50 49	0-1	7.0	B9	4-4-4	L Pers. Sm 8, 3518-68	
2 14W	42 00	0-1	7.6	B3ne	4-4-4	Be Prog " 74-624	
2 15 3W	03 05	1	7.7	B3ne	4-4-0	Be Prog " 25-78	
3 38W	+03 21	0-1	8.36	G, V	4-4-4	Set 2 Sc-Hv " 3681-204	
					15/10	" 8	
						1 P.H + 8	

293

Date Thurs. Feb 4/5 Observer Ms Julian Day 2436969
⊙ 315 11 55.6 3649.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25062	δ Tauri	5 31.7	+21 05	I-25	103a-0	0.008	+0.4	1847	18:48	3
	"	"	"	"	"	"	"	18:57	18:52	3
	"	"	"	"	"	"	"	18:54	18:56	-
25063	MWC 88 HD 19266	4 37.3	+40 36	"	"		+0.2	19:27	19:47	1
25064	17 Leporis Focus Test	6 00.5	−16 29	"	"	"	"	20:02	21:00	-

ome Temp. 28°F
ocus 15.33 − .09 = 15.24
ome Temp. 28

Transparency Conditions Good! Cloud bank in south.

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:09E	+21°06'	0	3.0	B3e	12	set 2 Se shell pos 4 1½ cont	
2:05E		0	3.0	"	12	set 5 3	
2:01E		0	3.0	"	12	set 9 6	
5:15E	+45° 43'	0	6.1	B4me	4-4-4	set 3 Be sens 6 3754	
:23E	−16 27	00	5.0	Aeq	4-4-4	set 5 Se shell [through clouds] sens 7 3764 3778	
					15/10	set 9	

Clouded out

2 P.H. + 4

Feb. 5	MC +38	SC −6.9	MC −4.7	S −24.3
Feb. 10	MC +46	SC −9.5	MC −3	S −33.6
Feb. 12	MC +47	SC −1.4	MC −1.9	S −37.4
Feb. 15	MC +53	SC −14.6	MC −1.9	S −42.5

295

Date Friday Feb 12/13 **Observer** [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25065	+48° 307	03h 18 0	+48°55'	75"	103a0	.76	-5°		

Dome Temp. 17°F

Focus 26 9 = .16

Dome Temp.

Transparency Conditions ~~Fair~~ Clouded over & Icy

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				82	A			

297

Date Sat-Sun Feb. 20/21 Observer Ms – MaC Julian Day 2436985

⊙ 331 22 16.1 3627.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
25065	HD 39118-9	5 45.3	+2 00	I-25	103a-O	.005	-0.2	19:33	21:51	3
25066	HD 190 65575	7 55.8	-2 36	"	"	"	-0.4	22 [illegible]	[illegible]	1
[illegible]	HD 107276	12 14.9	+29 01	"	"	"	-0.7	0[illegible]	0500	2
	Focus [illegible]									

Dome Temp. +27°F

Focus 15.31 − .09 = 5.22

Dome Temp. 122

Transparency Conditions good

2300 - clouds - waited

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:45 W	+2° 01'	O	6.3	G0A	4-4-4	2t5 Hynek comparator Secs 7 3797 3821	
0.55 W	−2° 47'	D	6.4	B2e	4-4-4	2t5 Be Secs 8 3822 3877	fine
2.300	+22 43	OO	6.59	A2	4-4-4	2t5 K1 6x6 * Secs 9 3877 3908	Too weak
						Cloud - afraid of snow	
					15/10	2t9	cZ2

* Changed to 4 016 after 4 exposures. Took ~20 minutes

2P H + 12

299

Date Sun Feb. 21-22/60 Observer L- Julian Day 2436986

0332 22 43.7 3626.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	T	Angle End
25068	HD 50083	06 46.5	05 13	I-25	E-103A0	slit .008	-0.2	20.00	22 40	4	136

Lme Temp. 26°F
Tcus 15.22
Lme Temp. 22°F

Transparency Conditions Hazy

300

ing Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
40	1 36 W	05 08	0	6.8	B2e	4+4	Be Prog. Ens. 8 3913 3953 Sky slowly clouding 2 P.A.s +12	fair
						Zil-22	MC +1m2s SC -158 ME 0.0 S -50.6	

301

Date Mon Feb 22-23/60 Observer L- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	I
25069	BD. 48°907	03 18.0	48 55	I-25	E103Ao	Set .016		19 01		1

Dome Temp. 22°F
Focus 15.21
Dome Temp.

Transparency Conditions haze

Starting Time E.S.T.	Air Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		49 05	0	82	A.	2	α Pers. Seq 8 3959 3971	
							11 counts in 1½ hrs no good poor seeing, haze, light snow-stormy wind phooey!	
							1 ph +12	
							Still hazy [illegible] midnight	

303

Date Tues-Wed 1960 Feb 23/24 **Observer** MR-HV **Julian Day** 2436988

0334 23 34.7 3623.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
979-108	Orion nebula	5h 33m.4	-5° 24'			var. set 20	6/3-4/5	19:40	
980-108	HR 3314	8 23.7	-3 07	HYx2			5/5 -5.6	22:39	
25069	HD 90512	10 21.9	+11 49	I-25	E10	.008		0049	0431
	[illegible]	[illegible]	073				+0.5		
					???				

Transparency Conditions hazy

ome Temp.
ocus 15.16
ome Temp. +14

ing Time E.S.T.	ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				–	–	var	1A/ne ; various other tests on this & planetaries	
				3.55	A0 V	30"	" 4250-4560 Lift D [illegible] N.G. passing large ±20'	
	4 01 W	11 3.3	00-0	7.38	G5	4-4-4	Set 2 KA 8X8 #7 3981 3996 Tested. [illegible]	
						15/10	" 8 from [illegible]	
							1P.H. + 11	
							M – M	
						-1 to 2	MC +1 Mag S; SC -19.7; ME –; S -56.5	

305

Date Wed Feb. 24-25/60 Observer L-Hv Julian Day 2436989

⊙ 335 23 58.1 3621.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25070	BD 48°907	03 18.0	48 55	I-25	E103Ao	Set .016	-2.7	18 50	22 20
25071	HD66068	07 56.8	53 57	"	"	.008	-2.9	22 35	01 49
25072	HD 100150	11 26.4	12 19	"	"	"	-3.0	0202	0540
	Plane Cat 028								

ome Temp. 25°F

Transparency Conditions Good

cus 15.20

ome Temp.

Counter stopped counting

ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
7 55W	49 06	0	8.2	A0	2-2-2		α Pers Cluster Sers 8 4004 .7	fine
346W	53 47	0	7.0	FeA2	4-4-4		Hynecks Prog	
410W	17 59	0	6.99	A0	4-4-4	S.t.	KA 8x8 #8 4096 2131	
					15/10	" 2	0515 Haze	c.v.d. to r

1 P.H. + 8

Feb 29 $\frac{NC}{+1^m 14^s}$ $\frac{C}{-22\,7}$ $\frac{NC}{-4}$ $\frac{C}{-1^m 4.5}$

307

Date Mon Feb 29 Mar 1/60 Observer L- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Exp.
25073	H.D. 45995	06 25.6	11 13	J-25	E103Ao	Set 008		21 19		4

ome Temp. +18°F

ocus 15.20

ome Temp.

Transparency Conditions

ing Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		11 17	0	5.8	B2ne	4.4	Be Prog. 8. 4134	
							Hazy Clouds	
							4 Plts loaded +4	

309

Date Tue-Wed 1960 Mar 1-2 Observer [illegible] – Hv Julian Day 2436 995
0 341 25 42.2 3610.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
981-109	κ Hya	09h 38.4m	-14° 09'	Hx2x2		.620	5/7	23:08		
982-109	β UMa	10 59.4	+56 36	"	"	"	4/6	23:15		
25073	HD 98153	11 12.4	27 54	I-25	E 103a-0	.008	-4.4	0041	0421	
	[illegible]	[illegible]	[illegible]				-5.0			

ome Temp. +17° F

ocus 15.17

ome Temp. +14

Transparency Conditions good

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	-14° 10'	10"	4.56	B5 V	30"	Int D 4250 - 4540 1A°/1; 2"/m	
	+56 34	"	2.37	A1 V	"	" " "	
329W	27 35	0-1	6.06	A 2	4-44	Int 2 KA 8/8 #7 4169	fine
					15/10	" 8	
						3 P.H. + 4.	

311

Date Sun - Mon Mar 6-7 **Observer** Se - Hr **Julian Day** 2437000
0 346 26 14.4 3600.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
983-110	HD 47105	6 31.5	+16 29	5200	-3400	020	4/5	20m 15		
984-110	2 Ori	4 49.4	+10 00	"	"	"	6/1	21 45		
985-110	ρ Gem	7h 25.9	+31 3	"	"	"	5/5	21 15		
986-110	HD 47105	6 31.5	+16 29	"	"	"	4/5	21 45		
987-110	α Leo	10 03.0	+12 27	"	"	"	4/4	22 10		
988-110	HD 47105	6h 31.5	+16 29	"	"	"	4/5	22 40		
989-110	HD 76644	8 32.4	+46 36	"	"	"	5/3	23 15		
990-110	α Leo	10 03.0	+12 27	"	"		4/4	23 45		
25074	HD 89363	10 13.6	18 13	I-25	E 1000	.008	-8.2 -8.2	0019	0403	2
	-7	9-6	070							

ome Temp. +15°F

ocus 15.12

ome Temp. +12°

Transparency Conditions

ng Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			.5	1.95	A0 IV	30"		
				4.74	A1 p	30"	White Astr. Sidereal Time mid trace 7h 35m	
				4.2	F0 V	"	Sid Time mid trace 8h 05	
				1.95	A0 IV	"	Sid Time at mid trace 8h 33m	
				1.21	B7 V	"	" " " " " 9h 02	
				1.95	A0 IV	"	" " " " " 9h 29	
				3.3	A7 V	"	" " " " " 10h 05	
				1.71	B7 V	"	" " " " 10h 33	
4.30	1W	1752	0-1	6.62	A0	4-8	Set 2 #7 4192 4207 KA 8x8 240 Haze	fair
						15/10	" B	Cal R 7c
							2 P.H. + 4	

313

Date Nov/Dec Nov 7/8 **Observer** vdB – H S **Julian Day** 2437001

⊙ 347 26 14.5 3598.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25075	HD 65079	$7^h 51^m.9$	$+3° 14'$	25"	103aO	.08	-4	$19^h 55^m$	$23^h 50^m$	3
25076	HD 87647	10 01.2	13 17	"	"	.008	-3	0003	0339	4
	[illegible]		0 23							

ome Temp. 25°F

ocus 1517

ome Temp.

Transparency Conditions Fine

ng Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2h45W	+30°04'	0	7.7	B3ne	4+4+4	Be-Prog [illegible] 4.0k 4.0k 209 –	fine
39	421W	1259	0	7.5	A5	4-8	KA8XB #4216	[illegible]
						15/10	2+8	[illegible]

4 P.H. [illegible] Plate Model

AN OBS. PROGRAM FOR 2ND HALF IS NEEDED!!!

Remainder COLTW not [illegible]

375

Date Tu-Wed 1960 Mar 8-9 **Observer** MR - Hr **Julian Day** 2437002
⊙ 348 26 12.5 3595.8

Plate No.	Object	R.A. ~~1900~~	Declination ~~1900~~	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
991-111	α Cha	06h 43m.4	-16° 40'	HT		.020	3/5	19:50		
992-111	ν Gem	06 26.6	+20 15	"	x4	"	5/5	21:20		
993-111	η Hya	08 41.1	+03 32	"	Y4	"	"	21:50		
994-111	Uranus	09 22	+16 10	→		"	6/4	22:35		
995-111	ν Leo	10 06.1	+12 11	→		"	4/4	22:48		
996-111	Uranus	9 22	+16 10	→		"	6/4	23:09		
997-111	β UMa	10 59.4	+56 36	→		"	4/6	23:39		
998-111	β UMa	"	"	HT	x4	"	"	23:58		
25077	HD 104381	11 56.1	12 56	I-25	103a0	008	-6 +0.5	0053	0059	1
	Trans Flat	O/B								

Slider not making good contact

Dome Temp. 19°F

Focus 15.15

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			-1.41	A1V	30"	Lit A 4200 - 4540 also 3400-5200	
			+4.1	B6	"	From near cl. 7	
			+4.32	B3V	"	Lit D	
			+5.8"	—	"	Slit 20 4A/mm 5200-3600 x2	22:49 EST
			1.21	B7V	"	" " 5200 - 3400 x2	9:39 LST
			—	—	"	" " 5200 - 3400 x2	
			2.37	A1V	"	" " 5200 - 3400 x2	
			"	"	"	1A/mm c	
4210	12 3 6	0	6.23	A0	4-4-4	Lit 2 KA 3x3 4247-4264 [illegible]	
					15/10	" 8 [illegible]	

3 P.H Tonight.

377

Date Thurs-Fri March 10/11 Observer Ms - Hr Julian Day 2437004
0 350 26 02.0 3591.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
25078	HD 50820	6 49.7	-1 38	I-25	103a-0	.016	-4°C	20:03	20 55	3
25079	62 Gem	7 22.7	+31 59	I-25	103a-0	008		21:43	21 59	4
25080	62 GEM.	7 22.7	+31 59	"	"	"	-4.6	22 04	22 24	2
25081	HD 100150	11 26.4	+18 19	"	"	"	-4.4	22 54	01 36	1
25082	" 117815	13 27.7	47 46	"	"	"	-4.6	01 48	04 48	2
	Focus	D-T	07B							

Dome Temp. +18°F

Focus 15.24 − .09 = 15.15

Dome Temp. +8

OUTSIDE −2°F

Transparency Conditions good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:00W	−1 42	00	6.2	B5	4-4-4	set 5 Hynek's composite slit changed .05 to .016 after 1 count; Ans. 6 4254 4288	
1:30W	+31 52	0	4.2		12	set 7 Se-AF Ans 4 4292	fine
1:55W	+31 52	0	4.2		6-6	set 6 Se-AF 4 4299 4303	fine
2:06W	+17 58	0-1	6.99	A0	4-4-4	set 5 KA 8X8 Ans 7 4305 4325	fine
2:16W	47 25	00	7.04	A5	4-4-4	" 2 " " #7 4326 4344	fine
					15/10	" 8	
						2 P.Th. +8	
					Mean 11	MC (Int) −.04 SC −25.9 ME −3 Si −1M 20.9	

379

Date Fri/Sat March 11/12 **Observer** VAB - L **Julian Day** 2437005

⊙ 351 25 53.7 3589.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25083	HD 34921	5h 15.8	+37° 35'	25"	10360	.008	-8°	19h 52m	22h 22m	4
25084	HD 87271	9h 58.8	+12° 07'	15"	10360	.008	-8°	22h 45m	00 15	[illegible]
25085	HD 122080	13 54.5	26 18	"	"	.016	[illegible]	00 25	03 55	[illegible]

Dome Temp. 15° F

Focus 15.12

Dome Temp. 7° F

Transparency Conditions Fine

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4h 02m W	37° 36'	0 to -1	7.4	Bone	4+4+4	Be proj ✓ 46	fine
01 14 W	11° 50'	0	7.0	AO	4+4+4	KA5*A5	fine
1 00 W	26 01	0	8.0	A5?	2-2-2	Fainter Component	fine
						3PH, Loaded +4	
						Dec. contrary does not work	

321

Date Sat. Sun Mar 12/13 Observer Se - Ms Julian Day 2437006

⊙ 352 25 43.3 3587.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F
25086	HD 68017	8h 05.5	+32° 47	I-25	E103a-0	set .008	-6.9°	20 [illegible]	22:00	
25087	HD 91948	10 31.9	+60 38'	"	"	"	-7.0	22h 11m	22:30	
25088	HD 117815	13 27.7	+47 46	"	"	"	-7.0	00 59	02 39	5
25089	H Bootis			"	IIa-0	"	-6.9	02 58	03 22	5
	"			"	"	"		03 22	03 36	
				"	"	"		03 36	03 47	
25090	H-8 Librae Focus test	15 52.6	-13 59	"	103a-0	"		03 57	05 13	1

Dome Temp. +18° F

Focus 15.13

Dome Temp. 14

Transparency Conditions Good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
55 W	+32° 35'	0	6.8	G4	4-4-4	Se HV set 5	fine
"	+65° 21'	1-2	7.37	F8	4-4-4	Sp. Binary N set 5	fine
15 W	+47° 24'		7.04	A5	4-4	Set 5 K.A. 8X8 seeing 8	[illegible]
43 W	+17° 37	1	4.5		4-4-4	set 1 se AF [illegible] plate seeing 4 12 < 37 34	
57 W	"		"		6-6	set 5 " [illegible] " 6 < 36 42	fine
03 W	"		"		12	set 8 " [illegible] " 3	fine
25 W	−14 17		4.7	B.e	6-6	set 5 Se Shell seeing 5 "	good
					15/10	set 9 [illegible]	

3 P.H. +12

Counters not working

05h 20m EST. - set on field of R Cor Bor - no stars visible brighter than ~ 9m.

323

Date Sun-Mon 1960 Mar 13-14 Observer MR-HV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	I
999-112	α CMa	06 43.4	-16 40	Hγ x2 + →		.020	3/5	19:38		
1000-112	χ² Ori	06 01.6	+20 08	Hγ x2 x2		"	5/7	20:21		
1001-112	ν Gem	06 26.6	+20 15	Hγ x2 x2		"	5/5	20:46		
1002-112	HR 3314	08 23.7	-03 47	Hγ x2 —		"	5/5	21:17		
1003-112	γ Leo	10 06.1	+12 11	scan		"	4/4+	21:40		
1004-112	Uranus	9 21.3	+16 14	"		"	6/4+	22:03		
1005-112	γ Leo	10 6.1	+12 11	"		"	4/4+	22:55		
1006-112	β UMa	10 59.4	+56 36	"	+ Hγ x2	"	4/6+ -5.0	23:35		

Time Temp. +23°F

Focus

Time Temp.

Transparency Conditions haze in NE, clear in W
Fairly clear at summit

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			-1.41	A1 V	30"	Lick A 4200 - 4540 ; also 3410 - 5200 - 3200	
			4.71	B2 Ia	"	" D 4200 - 4540 + 4220 - 4420	
			4.1	B6	"	Tom Dee 4220 - 4540 EST	21:21
			3.95	A0 V	"	" D 4220 - 4540 LST	8:30
			1.21	B7 V	"	5204 - 3400 (3960-3400 on 4/6) (gain set at 12 on 6/4)	
			-	-	"	" " +(4020- " ")	
			1.21	B7 V	"	" " +(3960- " ")	
			2.37	A1 V	"	" " +(3960- " 4/7)	

Hazy after midnight
Cleared at OTHS

325

Date Mon-Tue March 14-15 **Observer** vdB-Hv **Julian Day** 2437008
0354 25 16.6 3583.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25091	HD91948	10h 31 9	+66° 38'	25"	103aO	.08	-1°C	19h 50m	20h 50
25092	β Cnc	8h 11.1	+9° 30'	25"	103aO	.08	-1°C	21h 10m	21h 14m
~~25093~~	~~HD88725~~	~~10h 08 4~~	~~+3° 30'~~	~~25"~~	~~103aO~~	~~.08~~			
25093	HD98154	11h 12 4	+26° 01'	25"	103aO	.08	-1°C	22h 10m	23h 50m
	Set on HD12[illegible]080 could not [illegible]							0545	
25094	HD128168	14 30.3	+13 33	"	"	"	-1	0054	0516
	[illegible]								

ome Temp. 27

ocus 15-21

ome Temp.

Transparency Conditions Fine

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2h 30m E	60° 18'	0-1	7.37	F8	4+4+4	SB (KA 8x8) 680	Comp [illegible]
3h 13m W	9 17	0-1	3.76	K4 III	12	MKST	[illegible] Comp [illegible]
			8.36	G1 V		See HV Position of [illegible]	
0h 13m E	25° 33'	0-1	7.30	A2	4+4+4	KA 8x8	[illegible] Comp
						Set 5 [illegible]	
22 W	13 15	0	7.2	A3	4-4-4	ST 2 KA 8x8 #7 47 35	[illegible]
					15/10	" 3	[illegible]
						IP, H + S	
						Need Faint Stars for Test L.P.!	
						You are not using spell	

327

Date ~~Tues~~ Wed 1960 Mar 15/16 Observer MR — H ✓ Julian Day 2437009

⊙ 355 25 00.5 3582.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
1007-113	α C Ma	06h 43.4m	-16° 40′	48×2		.020	3/5	19:50		
1008-113	Aurora									
1009-113	α Leo	10 06.1	+12 11	Jenas	(2)	.040 .020	4/3 4/4	21:59		
1010-113	Uranus	9 21.2	+16 14	"	(4)	.020	6/6	22:30		
1011-113	α Leo	10 06.1	+12 11	"	(2)	.020	4/4	23:01		
1012-113	β 11 Ma	10 59.4	+56 36	"	(2) H(4 Tri)	"	4/7 ✓	23:27		
2 [illegible]	11 [illegible]	12 54.5	26 18	[illegible]	[illegible]	.008	-3.2 -3.5	00 35	0529	
	[illegible]									

Dome Temp. .....

Focus 15.19

Dome Temp. +17

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		10	-1.41	A1 V	30"	List A 4220-4540	Strong aurora
						see tracing	in N ½ going
			1.21	B7 I	"	5204-3400 + UV again at slit 40	from zenith
						5200-3800 at slit 20	
;40W at 22:44			—	—	"	5200-3700 " " "	
			1.21	B7 I	"	5200-3700	aurora still [illegible]
			2.37	A1 E	"	5200-3800; 4220-4540 List D	calibration
50W	25 57				4-4-4	Set 2 KA 8338 Fainter Comp. of HD 84753	
					15/10	1 8 Hope +	
						1 P.H. +7	
					Mar 15	MC +13 / SC -26.5 / MC -3 / S -1M30.1	

329

Date Sat-Sun March 17/70 Observer —Ms Julian Day 2437013

⊙ 359 23 38.1 3575.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25096	H Boötis	13 4	+17	I-25	103a	-008	+1.5	01:12	01 40	4
	"			"	"			01 4	01 52	4
	"			"				01 53	02:01	4
25097	λ Boötis			"	"			02 13	02:31	1
	"			"	"		1.4	02:31	02:39	1
						"		02 40	02 44	1
25098	48 Librae	15 52.6	-13 59			"		03:00	03:34	2
	Focus Test									

Dome Temp. + 27 °F

Focus 15·34 − 09 = 15·25

Dome Temp. + 25 °F

Transparency Conditions fair to middling

330

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20:32E	+17 38	0-1	4.5	?	4-4-4	set 1 Se AF sec 7 4969 99	
20:19E	"				6-6	set 5 " " 5000 5016	
20:11E	"				12	set 8 " " 5024 5028	
20:11E	+46 16		4.3		4-4-4	set 1 " " 71	
20:02E					3	set 5 " " 72	
20:03W		1-2			4	set 8 " " 5093	
20:47E	−14 11	0	4.7	Be	4-4-4	set 5 Se shell sec 7 5112	
					15/10	set 9	

03:45 set on field of R Cr Bor (through thin cloud).
No bright star visible

Clouds at end

3 P.H. +4

Date Sun Mar 20-21/60 Observer L-Hr Julian Day 2437014
⊙ 0 23 13.2 3573.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25099	HD 91948	10 31.9	60 38	I 25	E103A0	Set 008	-1.0	22 28	0038	
25100	" 114762	13 07.5	+18 03	"	"	"	-1.5	00 49	0527	
	[illegible]		0 25							

Dome Temp. 24°F

Focus 15.21

Dome Temp.

Transparency Conditions Haze

332

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
140W	60 19	0	7.37	F8	4-4-4	Spect Bin Lt8 5137 5190	
355W	17 44	0	7.86	F9 V	4-4-4	Lt 2 Sc-HV Haze "8 5192 3215	
					15/10	" 8	
						1 P.H. +4	

333

Date Th/Fr. March 24/25 '59 **Observer** vdB-Hr **Julian Day** 2437018

⊙ ~~0~~ ~~18~~ 4 21 16.2 3566.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25101	HD 106156	12h078	+10° 37'	25"	103aO	16	-3C	22h 40m	0421	4
	Flat					"				

Dome Temp. -3

Transparency Conditions Fine

Focus 15.19

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
HH Cm	+10° 13'	O-1	8.71	S8V	2+2-2	Se HV #281 Set 6 217 ← 5217? — 5252 Fr track	
		OO			8/6	Set 1	
						seeing very poor after midnight	
						1 P.H. +3	
						NEED FAINT STARS!	
						(for focus hold)	
						Rud	

Dome Temp. 46.2

Closing Time P.S.T.

335

Date Fri Mar 25-26/60 Observer L Julian Day 2437019.
0 5 20 42.4 3564.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
25102	HD 91948	10 31.9	60 38	I-25	E-103AO	Sat 008	-6.0	20 50	22 30	-0 10

Dome Temp. +17° F

Focus 15.16

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 10 E	60 18	0	7.37	F8	444	Spect. Bin Sens 8 5266 5316	/
						3 PHs loaded Plates needed	
					1424	MC +37 SC -27.5 ME -.9 S -1m51.0	

337

Date Sat - Sun Mar 26-27 Observer Sc - Ms Julian Day 2437020

⊙ 6 20 06.6 3562.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
25103	HD 103095	11h 47.2	+38° 25	I-25	F 103a-D	Set .008	-2.0°C	22:50	23:55	
25104	Roman 296 10 CVn	12 40.3	+39 49	I-25	103a-O	.005	-2.0	00 23	00 39	3
	"	"	"	"	"	"	"	01 10	02 12	3
25105	Roman 324 HD 122563 Focus test	13 57.6	+10 11	"	"	"	-2.1	02 19	04 03	1

Dome Temp. +24 F

Focus 15.20

Dome Temp. +22

Transparency Conditions Hazy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h 6m W	+37°59'	1	7.24	G8 IV	4-4-4	Sc HV	12-72
03 E	+39 25	1-2	6.49	G0 I	4-4-4	st 5 Sc HV unexposed	5377
30 W	+39 [illegible]	0-1	"	"	4-4-4	st 7 "	5427 5475 5525
04 W	+09 53	0-1	7.10	G0 IV	4-4-4	st 5 Sc HV	5528 5572
					15/10	st 7	

Looked for R Cor Bor (through haze); no bright stars visible in finder.

Cut off by haze.

3 P.H. +8 1 par. 30 MC +31 SC -22.5 mc -1 s -1h46.1

339

Date Wed Apr 6-7/60 Observer Hd - HS Julian Day 2437031.
⊙ 17 11 08.9 3537.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25106	MWe 146 HD45995	6 25.6	+11 19	J.25	E103a-J	008	+3.1	20 03	21 07	1
25107	HD 87271	9 58.8	+12 07	"	"			21 18	0014	2
25108	" 117815	13 27.7	47 46	"	"	"	+3	00 28	0426	3
	Feb 7.5+	0.78								

Dome Temp. +37

Focus 15.26

Dome Temp.

Transparency Conditions

340

ng Time S.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
07	3 22	+11°19'	0	5.8	B2IR	4-4-4	Be jerky. Sets 7 {5557 5591 5	strong
014	256W	+11 50	0	7.04	A0	4-4-4	K4 3x8 " 7 {5593 13	[illegible]
026	0341W	4725	0	7.04	A5	4-4-4 15/10	Lots K4 3x8 " 7 5616-35 c 8 color	fair
							IR + 7?	

341

Date Sat-Sun 1960 Apr 9/10 Observer MR - L Julian Day 2437034

⊙ 20 07 54.7 3530.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25109	Uranus	$09^h 19^m$	$+16° 26'$	I.25	1030.0	2nd .008	43.0	22:48	23:38	1
	"	"	"	"	"	"	"	23:40	00 00	
25110	HD 137294	15 20.1	11 20	"	"	"		00 19	03 15	

Dome Temp. +30°F
Focus 15.26 ✓
Dome Temp. +27°F

clear; motion in S → W abt 10:30 2 pieces

Transparency Conditions Sl. hz.

170 visitors
showed Kramers

342

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 15W	+16 26	–	5.7	–	4-4-4	set 2 S7-5846-66	fair
3 37W	"	–	"	–	6-6	set 5 5675-85	good
7 48W	11 07	1	7.34	F_2	444	KA 8x8° SB 5687-737	[illegible]
						Clouds.	
						3 PHs loaded + 4	

343

Date Sun-Mon 1960 Apr 10/11 Observer DH - Hv Julian Day 2437035
0 21 06 45.6 35 28.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
25111	HD91943	10^h $31^m.9$	+60° 38′	I-25	103a-O	008	+3.[illegible]	20 28	2216	3
25112	HD 100150	11^h $26^m.4$	+18° 19′	I-25	103a-O	008	+2.7	[illegible]	0146	4

ome Temp. 32° F

ocus 15.35 - 0.09 → 15.26

ome Temp.

Transparency Conditions 2130 light cloud from NW
2300 [illegible] NE
0015 Thin Cloud
0210 Solid Cloud

ng Time S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	40W	165° 19'	0	7.37	F8	4-4-4	Set 5 Spec Bin-N Seq 8 METER START 5786 5835	
	317 W	117° 57'	0	6.99	A0	4-4-4	Set 3 KA 8'x8' Seq 7 (20 [illegible]) 5837 -55	
						15/10	" 8	
							IPH +4	

345

Date Tues-Wed 1960 Apr 12/13 Observer MR – HV Julian Day 2437037.
⊙ 23 04 21.3 3525.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
25113	HD 91948	$10^h 31^m.9$	+60°38'	I-25	103aO	.008	+10°.2C	20:56	22:56	1	1:28
25114	δ Leo	11 8.8:	+21 04:	"	"	"	+10.1	23:07	23:10	2	–
	"	"	"	"	"	"	"	23:11	23:19		.5
	"	"	"	"	"	"	"	23:20	23:23		–

Dome Temp. +44°F

Focus 15 44 − .09 = 15.35

Dome Temp.

Transparency Conditions excellent – few thin clouds in spots

346

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:28 W	+60° 19′	1	7.37	F8	44-4	Set 5; Spec. Bin. 8/5863/5918/55	
—	+20 44	1	2.57	A4 V	—	Set 2 5/5928/5936/8	
1:15 W	"	"	"	"	12	Set 5 large & dbs 5/5937/5953/16	
—	"	"	"	"	—	Set 8 5/5953/5957/4	
						Clouds at Midnight. Closed. 2 P.M. P[illegible] P[illegible] Moonlit	
					Apr. 13th	MC / CC / ∴ +115 −293 −5m02s	

347

Date mm Oct 18-19/60 Observer — Hv Julian Day 2437043.

© 28 56 25.0 3514.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. +3.5	Starting Time E.S.T.	Ending Time E.S.T.	P.
35115	HD 130988	14 46.0	45 12	I-12½	E103a-O	.016	3.5	0047	0441	4
	Focus	9.4	0	B						

Dome Temp. +32

Focus 12.915

Dome Temp.

Transparency Conditions GOOD

April 15 L changed to 12½" camera 25" was Focus 15.35 12½" Focus 12.915 Filt 23.15 Filt 20.35

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0325 W	+5 03	00	9.17	G-5	1-1-1	Set 2 KAFS #9 5982-6024	[illegible]
					4/3	" 8	[illegible]
						1 P.A. +12	

349

Date Jues April 19-20/60 Observer L-Hr Julian Day 2437044

⊙ 29 54 59.8 3513.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
25116	HD 84059	09 37.4	45 11	I-12	E 103Ao	Slit .008	+8.5	20 26	21 20	3
25117	BD 45° 1758	09 38.7	45 24	"	"	.016	+8.5	21 26	00 18*	4
	Trans Slit		073					* Effective		

Dome Temp. 43°F

Focus 12.915

Dome Temp.

Transparency Conditions

0010 Clouds Star Gone

Closed at 0135

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
L 13W	44 53	0-1	7.50	A8	22-2	KAFS Sens 8- 6048 6060	good
0403W *	45 07	0-1	9.99	G2	1-1-1	KAFS Set 5 " 10 6062 6090 approx.	Lunch
					4/3	" 9	cha
						3 P.H. + 8	
					Upper	MC +55 SC -31.1 ME +1 S -2m 07.7	
					Upper	MC +55 SC -31.8 ME +1 S -2m 08.5	

351

Date Fr/Sat Apr 22/23 **Observer** vdB **Julian Day** 2437047.
⊙ 32 50 34.3 3508.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E
25118	HD 103095	11^h 47.2	+38°26'	12"	103aO	.008	17°C	$20^h 23^m$	$20^h 38$	1
	"	"	"	"	"	.016	"	$20^h 41$	$20^h 50$	1
25119	HD 114071	13h03.0	+29° 59	"	"	.016	"	$21^h 10^m$	$22^h 20$	2
25119F	Focus test				IIAO	.008	+7.6			

outside through base.

Dome Temp. 64°F

Focus —

Dome Temp.

Transparency Conditions Cl. ins

Sat Apr 23 Cloudy. 190 visitors Hd-L.
Showed films & telescope.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h27m E	38°00'	1	7.3	G5	2+2+2	Pos 2 ST. Vel. 97-03	Poor
1h14 E	"	1	"	"	1+1+1	pos 8 03-8	poor
	29°38'	1?	10.08	F8	1+1+1	KAFS 57-602 09-41	Too weak
						Clouded out 22h20m	
						1PH+1	
					10/7	Set 1 Focus 12.93	
					10/7	" 3 " 12.94	
					10/7	" 5 " 12.95	
					10/7	" 7 " 12.96	
					10/7	" 9 " 12.97	
						Set focus 12.93	

353

Date Wed - Thu April 27-28 Observer Se - Hv Julian Day 2437052

⊙ 37 42 36.8 3498.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
25120	HD 92588	10 36.3	-01·13	I-12	E 103a-0	set ·008	+16.6	20h 45	21 30	
25121	BD +66° 1598	15 14.3	+60 08	"	"	set ·016	+16.6	23·38	04 16	
	Focus [illegible]		0 13			·008				

Dome Temp. +42° F

Focus

Dome Temp.

Transparency Conditions Haze, clouds S+E. 359

v. Bright Aurora E.T. 21h:30

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
T= 11:33 *							
L= 057W	-1° 34	00	7.4	K1	2-2-2	Standard velocity Secs 8 12 cuts 6146 +2	l wk
030 W	+59 57	0	9.84	F5	2-1-1	AURORA, ! Secs 10 70 cuts KAFS 6181 6215	too wk
					8/6	Sat 9	
						3 P.M. Full	
						Bright Aurora after 3 AM	

* approx computation Cg.

355

Date Thurs April 28-29 Observer L-Hr Julian Day 2437053
⊙ 38 40 55.7 3496.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
25122	H.D. 114762	13 07.5	18 02	I-12	E103Ao	set .016	11.0	21 50	22 22	1
	"	"	"	"	"	.008	11.0	22 24	23 30	"
25123	HD 121933	13 53.5	46 39	"	"	.016	10.9	23 43	04 17	
	Tau	7 cat	0713							

Dome Temp. 45°F

Focus 12.93

Dome Temp.

Transparency Conditions 0202 Brilliant Aurora

Sat April 29-30
100 visitors shown
telescopes, Mark Se Sr

356

Clouds at sunset delayed start.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 38E	17 43	0	8.2	F7	1-1-1	Set 2 Standard Vel Sim 8 6255 6267	Ok
0 30W	"	0	"	"	2-2-2	" 7 " 6268 6280	Ok
0 43W	45 21	0	9.23	F3	1-1-1	" 5 KAFS #9 6283 6312	weak
					8/6	" 9	

I.P.H. Pond

Apr 28 WEA 8 visitors N

357

Date Sun May 1-2/60 Observer Hd + Hv Julian Day 2437056

⊙ 41 35 40.7 3491.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25124	HD 103095	11 47.2	+38 26	I-12	Ε103aO	008		20 26	20 4[illegible]	3
							9.0	20 42	21 08	
								2		
25125	"	"	"	"	ΕIIaD			21 17	21 37	4
							9.0	21 37	22 01	
25126	HD 121933	13 53.5	+45 39	"	ΕIIaD	016	8.9	23 14	0148	1
	Focus Test			"	"	.003	07B			
25127	HD 142592	1550.3	4515	"	"	.016	8.9	0200	0416	2
	Focus Test		0 TB	"	"	.003				

Dome Temp. 46 F

Focus

Dome Temp.

Transparency Conditions

22h – 22h30 Hr, JEH. LOOKED AT M3 (Very Good)
Seeing α CVn but not dec. troubles

0045 FIRE NEAR WATER TOWER in R.H. PHONED FIRE DEPT.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS			Quality
0 45E		0	7.3	G5	2-2-2	set 2	Carefully guided for a test.	seeing 7	6317 6321 (4 sts)	
T = 11:29										
0 18E	37 58	0-1			2-2-2	" 8		" 7	6322 6330 (8 sts)	
Focus.		OTB			12/6	" 5		" 7		
					2-2-2	" 2	Developed.	" 7	6332 6335 (6 sts)	
W 33m					4-4-4	" 9		" 7	6339 6347 (8 sts)	
216W	45 19	0-1	9.25	F3	1-1-1	" 2	KAFS	" 9	6348 6393 (4 sts)	
					8/6	" 8				
247W	4504	0	9.25	A2	1-1-1	" 2	KAFS	C330 a few clouds SOME HAZE " 9	6396 6431	
					8/6	" 8				

PHOTS [illegible] EIOO

359

Date May no/tn 2/3 1960 Observer B-H Julian Day 2437057
⊙ 42 33 51.7 3489.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
25128	+29° 2495	14h 07.6	+29°45'	12"	II-O	.16	+10°C	21h 35m	22h 40m	3
25129	HD 142592	15h 50.3	+45°15'	12"	"	.16	+12°C	22h 57m	23h 55m	
25130	HD 135721	15 11.5	+60 19	"	"	.016	+12.8	0035	0409	
	Focus Test		OTB			.008				

May 4 - Hd

~~Set~~ focus 12.945

25130 F_1 Focus test set 1 OTB 10/10 Temp. +14.0 Ctrl.

"Ghost" Test set Plunger flange drift from spec.

Exposure

3½	1½"	5s	no ghosts
5	2	7	
6½	2½	9	
8	3	10	
9½	3½	10	→ ghosts.

Dome Temp. 52°F

Focus

Dome Temp.

Transparency Conditions Tel / Low Fine

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h 00 E	29° 26'	1	10.00	F8	½+1½+1½	KAFS (KA5R) 6432-6522	?
1h 30 E	45° 03'	1	9.25	A2	1½+1½+1½	" (KA3J) 6532-6577 "	
3.33 W		0-1	7.00	A3	1-2	" Set 2 KA15 #9 6593 6621	
					8/6	" 8	

25130 F_2 focus set 12.93

~~Focus Test~~

Short Test Set

	Phase Length	Exp
	2	10
½	3	10
2 ½	3¼	12
3½	3½	12
5	3¾	12
6½	4	12
8	4¼	12
9½		12

1 F.H. 1 E Dec IN FRIG.

Passing Clouds all night. (Frequent)

More Frequent near Dawn.

May 4th	MC	SC	MC	S
	+1 49s	-36.2	0.0	+23 14s

1960 May 3 Had trouble with dec clamp & slow motion

Finally set voltage to 105v

Set focus at 12.945 Temp 18°

Clouds MR

Closed at 0340 Hr

361

Date Wed ~~April~~ May 4-5/60 Observer L-Hv Julian Day 2437059
⊙ 44 30 07.9 3485.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
25131	BD 29°2495	14 02.6	29 45	I 12½	E II A0	Spot .016	19.0	21 38	0400	1
	Focus Dot		07B	"	"	.008				

Dome Temp. 60°F

Transparency Conditions Hazy

Focus

Dome Temp.

Clouds at sunset.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0430 W	29 25	0-1	10.0	F8	1-2	Set 5 KAFS Sens 10 6633 6687	
					2/6	Set 9	
						3 P.H. + 8 — Trig.	
						Haze all night	

363

Date Thu-Fri May 5-6 Observer Se — Julian Day 2437060
0 45 28 13.1 3483.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
25132	HD 107328	12h 15.3	+03° 53	I-12	F II a O	set .008	°C +19.6	22 05	22 38	

Dome Temp. +60° F

Focus

Dome Temp.

Transparency Conditions Very hazy some cloud

Time G.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
38	7h 59W	+03° 32	0	6.1	K1	2-2-2	Std Vel Ex Mk set 8 15cks 6743-58 CLOUDS	
							ZPH +8 = Fig.	
							Set May 7 5 DH Cloudy, rainy - 85 at 9 pm 55 at 10 pm Demonstrated telescope for each group and talked on current astronomy unit slides	

365

Hy = Dick Heavy.

Date Wed May 11-12/60 Observer Hy Julian Day 2437066

⊙ 51 16 05.4 3473.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F	Hour Angle End
25133	HD 123782	14 04.6	+49 56	I-12	IIaO	.008	+9.0	22 02	23 02	2	{3

Dome Temp. 44F

Focus 12.23

Dome Temp.

Transparency Conditions very poor

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3h	47 37	1	68	1½	2-2-2	Set 2 [illegible] vel. [illegible] 7 6705 6801 clouds	[illegible]
					May 13	MC S MC S +1m43s +0.2 0.0 +22m15s	

367

Date Sat May 14-15/60 Observer L-M S Julian Day 2437069
0 54 09 40.5 3469.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
25134	HD 131861 Focus Test	14 ~~48.2~~ 50.9	45 ~~35~~ 43	I-12	IIAO	Sep ~~.008~~	11.0	23 07	01 07	3

Dome Temp. 47°F

Focus 12.93

Dome Temp.

Transparency Conditions Poor

368

N-L showed 250 Visitors 9 Can Ven.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 29W	45 25	1	7.64	F_3	2-2-2	KAFS sem 8 6816 6829	
			set	10	5/6	Solid cloud at end	

369

Date Sun May 15-16/60 Observer Hd - Hv Julian Day 2437070

055 07 29.6 3468.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
25135	HD131961	14 50.9	45 43	I-12	I 30	008	17.0	22 43	23 19	1
							Focus Test		12/12	2 TB
25136	HD 114059	13 02.9	+29 57	"	"	016	17.1	23 50	0308	2
25137	" 145091	16 03.6	+17 19	"	"	016	17.1	0332	0540	3
	Focus Test		0713			008				"

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
E 16m	+45 25	2	7.64	F3	2-2-2	KAFS ~~Sun~~ Scan 8 6831 6847	
0520W	+29 41	1-0	10.06	G8	1-2	KAFS As far West as possible Scan 10. 6860 6886	
0253W	+17 10	0-1	6.1	G4	3	Set 2 STD. VEL Scan 6 6870 6892 [illegible]	
					3/6	" 8	
						IR H. Found on Plate	
						Cannot Focus May 16/17	

371

Date Wed Eve, 18-19/60 Observer Sc — Hr Julian Day 2437023.5
058 00 50.3 3464.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E
25138	HD 107328	12 15.3	+03 53	I-12	IIa-O	.008	21	21 54	22.10	4
25139	"	"	"	"	"	.016	21	22 28	22 41	1
25140	136202	15 14.2	02 09	"	"	.008	21	23 30	23.36	1
25141	136202	"	"	"	"	.016	21	2347	23.51	2
25142	HD 136244	15 14.5	+6027	"	"	.016	21	0020	0048	
25143	BD -60° 1598	15 14.3	6008	"	"	"	21	0103	0107	
	Focus Test			OIB						

Gg — Focus Tests May 21/60

25143 F1 } identical repeat of 25130 F1 + F2
25143 F2 } except that
camera was rotated to 130° -

Dome Temp. 66°

Focus

Dome Temp.

Transparency Conditions Poor

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
01h 22m W	3° 31'	1	6.1	K1	2-4	Standard Id stars	Seeing 7	5723 6707	
01 52 W	"	1	"	"	2-2-2	" " "	" break	6710 6716	CLOUDS
0h 11m E	1° 54'	1	5.6	G0	2-2-2	" " "	" *	6720 6926 6932	
0h 04m E	"	1	5.6	G0	2-2.	" " "	"		
0102W	6015	1-2	9.08	K3	1-2	Id + 2 KAFS	" 9	6948 6973	
0342W	5952	2+	7.84	F5	1-1-1	" " "	" 9	6997	
					8/6	" 8			

Wed - Hd 60 Visitors, Can Astronautical Society, Se showed telescope, Hd phoned P.H. in Tr.

Thurs - Hd & L showed double star to 30 R.H Lions Club.

May 20	MC +1m 22s	SC -16.2	MC 0.0	S +22m 16.8
May 26	MC +1m 2.4s	S 52.2	MC 0.0	

Left May 21 75 Visitors, clouds + fog

Hd, Bz showed "Exploring the Universe" and demonstrated Wescope

373

Date Thur May 3 1900 Observer Eg — Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E
95144	HD 114762	13 07.5	+18 02	1-12	Ordinary	008	70	20.53	23:26	2
95145	HD 124403	13 37.9	-09 14	"	"	016	"	00.40	03:24	3
	Focus	Pat.	373							

Dome Temp. 64°F

Focus

Dome Temp.

Transparency Conditions Thin

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2h 17m W.	+17° 42'	O	8.2	F 7	2-2-2	stel. wel stars P.M. setting 3. " " 8 " " 7 16 63	May be [illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1-2	Sets CB. H 1 7071 [illegible]	Too weak
					4/3	" 8	OK.
						2 P.H. [illegible]	
						NEED NEW OBS. PROG. W/ BRIGHTER STARS!!!	
						Sidereal Clock out by 1m 10s ?? eq.	

375

Date Fri May 27 8/60 **Observer** Hy **Julian Day** 2437082.5

⊙ 66° 39' 51.5" 3454

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25146	HD 145001	16 03.6	+17 19	I-12	II a-0	.008	20°C	01:04	01:18	1
25147	HD 145001	16 03.6	+17 19	I-12	II a-0	.016	20°C	01:38	02:02	3
25148	HD 187691	19 46.2	+10 10	I-12	II a-0	.016	20°C	02:32	03:00	4

Eq. June 1/60

Test for Stars — Iron Arc

(focus camera set at 12.92)

P.H. – 1.

T. 18°C

25148 F1

P.H. setting	Focus mm.	Expos
0	15.00	12s
1½	14.50	"
3	14.00	"
4½	13.50	"
6	13.00	"
7½	12.50	"
9	12.00	"
10½	11.50	15s

25148 F2

P.H. setting	Focus mm.	Expos.
0	13.10	12s
1½	13.00	"
3	12.95	"
4½	12.90	"
6	12.85	"
7½	12.80	"
10	12.70	15s

Dome Temp. 62°F.

Focus

Dome Temp.

Transparency Conditions Fair

Sat May 28

Se-Hy-JB-JP showed 20 telescope + lecture + slides.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h 21 W	17° 09'	O	6.1	G4	2-2-2	STANDARD VEL STAR ...6 ~~7095~~ 7097 7099	
2h 05 W	"	O	"	"	2-2-2	" " " ...6 ~~[illegible]~~ 7101 7103	
00h 40m E	10° 16'	O	5.8	F8	2-2-2	" " " ...6 7104 7106	
						Haze + thin cloud toward end	
						3 plateholders in frig	
					7104/30	MC +1m29s; SC -57.7; MC 0.0; S +23m05.4	

377

Date Wed. June 1-2/60 Observer Gg. - Hr Julian Day 2437087.5

⊙ 71°27'29.3", 3447.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25149	HD123782	14 04.6	49 56	1-12	I-A0	.008	23°	21:25	21:35	3
"	"	"	"	"	"	"	"	21:36	21:52	3
25150	"	"	"	"	"	.016	"	22:01	22:10	2
25151	HD136202	15 14.2	+02 09	"	"	.016	23°	22:53	22:59	1
	"	"	"	"	"	.008	23°	23:02	23:14	1
25152	HD136294	15 14.5	+60 29	1-12	II-A0	.016	[illegible]	00:02	00:22	[illegible]
25153	HD180398	19 11.3	+11 56	"	"	.008	23°	01:49	02:00*	[illegible]
	[illegible]	[illegible]	[illegible]			"				

* Effective Time

Dome Temp. 72

Focus 12.92 → as I found it Gy.

Dome Temp.

Transparency Conditions Good!

03 Clouds

378

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0h 18m E	49°38'	0-1	6.8	M2	3-	Std. Vel (house lights on for few seconds) Setting 34 Seq. 7. (9) 7112 7119	l. weak
0h 11m W	"	0-1	"	"	2-2-2	Std. Vel Setting 7 Seq. 7 6 exposures (1 offset) 7020 7028 (2)	good
0h 28m W	"	0-1	"	"	2-2-2	Std Vel. Setting 5 Seq 7 8 exposures 7134 7142	l. weak
0 07 W	–	1	5.6	G0	3-3	Std. Vel Setting 5 Seq. 6. 6 7162 7166	fine
0 22 W	–	1	"	"	3-2	Std. Vel Setting 8 Seq. 6. (3) 7167 trouble w/ Hewlett...	good
2 31 W	60 08	0-1	9.08	K3	2-1	KAFS Setting Seq. 9. 6 exp. 7172 7182	good
[illegible]	13 02	0-1	7.7	B[illegible]	3-3	MWC 312 HdBe " 3 Seq. 8 7227 7232	good
					8/6		Companion OK

all slightly fogged due to overheating. (probably) (no other cause apparent)

(*) Gy – had to adjust focus at dial, it was focus at ≤ .5, it was focus at .96.

379

Date Thu June 3-3/60 Observer Gq — Hr Julian Day 2437088.5

⊙ 72° 24' 57".1 3446.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25154	144579	1601.5	+39 24	T-12	T.A.O	.016	20°C	22:53	[illegible]	4
	FOCUS	9E59	0	T.13		[illegible]				
25155	HD 144578	"				.001	20	0034	0200	
								*EF=	[illegible]	

Gq — June 3 — Focus Test (25155 F1)

— just off-iso arc

P.H. #1

P.H. Setting	Focus mm	Expos
0	12.56	7s
1½	.57	7s
3	.58	7s
4½	.59	7s
6	.60	7s
7½	.61	7s
10	.62	7s

Dome Temp. 62

Focus

Dome Temp.

Transparency Conditions Thin Haze
Clouds in south up till 21h
Scattered clouds at 23h10m

2120 Foggy!! 0350 Fog

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0h 09W (calc)		O!	7.2	G8	2-	Sl. Vel. Slo. setting 7255 Sun. 2023 Cloudy	good (Focus O.K.)
					8/6	setting 9 OVERCAST AT 23h10m p.m. FOG — magnitude 4.	
23h14	3742				2-4	" 2 # 0 7272 -1.5	too weak
					June 3.	MC +1m32s SC -1m03.6s SW +7.9s S +22m01.5s	
all slightly fogged due to overbaking						1 P.H. (#1) ... fog.	
						Eq — Slow motion buttons ... / month work — pla. South Dec. clamp at 9:40 pm. Stopping guiding at 9:55 — cloudy — quit [illegible] Frank at 10:10 pm — [illegible] at 10:20 — ok.	

381

Date Fri June 3-4 /60 Observer L. Hy Julian Day 2437089.5

⊙ 73 22 23.6 3445

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
	~~BD +29° 2495~~	~~14 02.6~~	~~29 45~~	~~I 12½~~	~~II Ao~~	Set .016	22.0	21 22		2
25156	HD144579	16 01.5	39 24	I 12½	II Ao	"	22.0	22 49	23 03	2
	"	"	"	"	"	.008	22.0	23 05	23 51	2
25157	" 168957	18 17.3	25 01	"	"	"	22.0	23 59	00 51	3
~~25158~~	~~HD 177648~~	~~19 00.5~~	~~23 11~~	~~"~~	~~"~~	~~"~~		~~01 28~~		~~1~~
25157, F1 (see Hy for June 13)				"	"	.008				2

FOCUS TEST PH #2 .008

~~It is not a Hartmann Test!~~

~~Was the plunger left down at this point? (See next page)~~

~~OK from plate separate~~

Hd

Dome Temp. 66°F

Focus

Dome Temp.

Transparency Conditions cloud + aurora — poor

382

Sat Jun 4 200 chasr telescope and moon Se - Br - KM

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
		1	10.0	F8	1-	Haze light cloud	Sens 10	7260	
D 25E	39 14	1	7.2	G8	1+1	Set 2	Std Vel.	Sens 7 7285 7293	good
D 24W	"		"	"	2-2-2	" 9	" "	" 7 7294 7302	good
D 52E	24 59	0-1	6.9	B	B5e	" 5	Be prog	" 7 7303 7311	bad
			7.5	B3e	2-	" "	" "	Sens 8 7315	

F/G

?

interuptions due to aurora + thin cloud

clouded out.

2 p.h. in fog.

383

Date Su/Mo June 5/6 1960 Observer [illegible] Julian Day 2437091.5

⊙ 75 17 12.9 ● 3442.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
25158	HD 133965	15h 02m 2	+29° 35'	12"	IIaO	.006	23	21h 13m	0233	4
25159	HD 187691	19 46.2	+10 10	"	"	.008	22	3h 05m	3:25	1
	FOCUS TEST		— OTE			.008				

MIRROR ALUMINIZED

Mon Jun 6 to Fri Jun 10

Dome Temp. 63.0

Focus

Dome Temp. 52

Transparency Conditions Fine
bright, illuminism.
Wind - 20 mph.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4h 13m W	+29°17'	0	9.42	F6	2+2+2	KAFS Setting Series 9. 60 sec ☆ 30 sec ☆ gr* 50 counts 7395-81	Too weak
0h 21m W	+1017	0	5.8	F8	2-3	Std. Vel. Setting Series 3 sec ☆ (repeatedly)	Too weak
					8/6 (longer)	Setting [illegible] bumped out in viewing piece [illegible]	Trouble

Night entirely wasted due to [illegible]

1 PH nifying + yellow key.

Standard Time Clock is 4m slow - Eg.

Eg - At 3:28 I discovered that "bottom plunger" was half-way down all night!

Jul 1 — MC 0.0 — CC -1m 0.5.8

385

Date June 10/11 1960 Observer Br – Gg Julian Day 2437096.5

⊙ 80° 03' 58.2" 3438.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
25160	HD 123782	14h 04.6	49° 56'	12"	[illegible]	.008	22°C	21:09	21:43	2
"	"	"	"	"	"	.016	22°C	21:45	22:01	2
25161	HD 117845 MWC 310	13h 27.9	59° 27'	"	"	.008	22°C	22:12	00:34	3
25162	HD 177648	19 00.5	23° 11'	"	"	.008	"	1:12	2:22	4
25163	BD+28° 3434	19 37.3	+28 55	"	"	"	22	2:35	3:43	1
	FOCUS TEST – GTB					.008				1

Set June 11, 2 pm. Found focusing plunger half-way down! [illegible]

Dome Temp. 66°F

Focus

Dome Temp. 57

Transparency Conditions Some thin cloud & haze thickening towards mdnt. El clouds in small at 3:00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS				Quality
0h 43m W	49° 42'	0	6.8	M2	2-2-2	set 7	Std vel	Seus 7	7386 7394	
0h 58m W	"	0-1	"	"	1-1-1	set 2	"	"	7395 7403	
4h 08m W	59° 12'	1-0	8.36	F8p	2-2-2	set 5	KAFS	Cont. very variable - haze thick	Seus 8	7404 7424	l weak
0h 24m W	23° 15'	0-1	7.5	B3e	2-2-2	Set 6	Pec Prog.	Seus 7. (10)		7430 7440	faint
4h 08m W	29° 04'	1	8.5	B1 Ib p	2-2-	Set 6.	O-B prog.	Seus 8 20-min.		7442, -56 (not exactly at time) (picked for fa. faster)	weak
					8/6	Set 10 ord (hyperbolic photo)					

June 15 ME +1m 38s SC -1m 13.3 mE -2 S +21m 46.9

4 PM in [illegible] + 8 in yellow

Cloudy

Set [illegible] June 11. Sc, Sq, V. Bar [illegible] slow [illegible] [illegible] Eq

[illegible] Th Eq [illegible] Eq

[illegible] about [illegible]

Check [illegible] [illegible] of [illegible] Eq

- Put [illegible] bars closer together [illegible] Eq - test spot.

Add 3' to dec to get correct value Sc.

387

Date Sat/Sun June 18/19 1960 Observer vdB-Hy Julian Day 2437104.5
⊙ 87° 42' 17.4" , 3436.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
25164	HD 158262	17h 23.2	+11° 31'	12"	IIa O	.16	19°C	23h 20m -	01 04	1

Dome Temp. 60° F

Focus —

Dome Temp.

Transparency Conditions 1) Good, Partly cloudy later
2) CLOUDS

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W $1^h 13^h$	$+11°28'$	1	8.6	A?	2+2-2	KA 8×8 7480 · 2494 = 14 → (20 required)	a bit warm Slightly Pussyfoot
						CLOUDED OUT	
						visitors	
						100+ First group (mainly Astronomers)	
						60 Second group	

389

Date Sun-Mon June 19-20 Observer Cap-Hr Julian Day 2437105.5

⊙ 88° 39' 33.5" 3435.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Ang End
	~~HD 133965~~			1-12	IIAO		21				
25165	HD136202	15 14.2	+0209	1-12	"	.008	21	22:14	22:32	2	
	"	"	"	"	"	.016	20	22:36	22:48	2	
25166	HD133965	15:22	+2935	"	"	.016	"	23:05	0-15	3	
	[illegible]	[illegible]	078			"					

Dome Temp. 63

Focus 1.7.9.2

Dome Temp.

Transparency Conditions Clear

390

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			9.42			KAFS | Too faint to show up in finder telescope at 29120, Fiducial. | No - read star field wrong. #59 KA.	
0h 51W	+01° 58'	O	5.6	G0	2-2	Stol Vel Setting 3. Sens 6. 7533 .37	good
1h 07W	"	C	"	"	2-2	" Setting 7. Sens 6. 7538 42	good
5h 17W*	+29° 23'	O	9.42	F6	1-2	KAFS setting 5. Sens 9 7544 66	too weak
* As for West is Possible 4/3						" 9	

JDH in Charge

June 20 MC +1m39s SC -1m20.6 MiE -5 S +21m40.5

Adjusted EST clock +4m to conform with MET+CHU in clock room — Cg.

391

Date June 20/21 1960 Mon/Tues Observer WDH + PT – BC Julian Day 2437106.5

⊙ 89° 36' 49.3" 3435.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25167	HD 131861	14h 50.9	+45° 43'	12"	IIaO	.008	22°C	21h 28m	00:22	4
25168	HD 193009	20h 17.9	+32° 04'	12"	IIaO	.008	21°C	00:37	02:37	1
25169	HD 194335	20h 20m.0	+37° 10'	12"	IIaO	.008	21°C	02:45	02:51	2
25170	HD 198478	20h 45.5	+45° 45'	12"	IIaO	.008	21°C	03:15	03:20	3
25171	HD 200310	20h 57.6	45° 46'	12"	IIaO	.008	21°C	03:26	03:32	4
	Focus Test	OTB								4

Dome Temp. 67°F

Focus —

Dome Temp. 58°F

Transparency Conditions Fair (cirrus)
thin cloud & haze later (AM)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
$3^h\ 08^m$ W	+45° 29′	0	7.64	F3	4+4+4	KA34 Hiv 5355 Sens 8 7580 – 7600 Set 5	foggy
$0^h\ 02^m$ W	+32° 16′	0-0	7.0	B0 ne	2+2+2	Be prog. Sens 8 7601 – 7621 Set 5	"
$0^h\ 14^m$ W	37° 22′	0	5.7	B3 ne	2+2+2	Be prog. Sens 8 7622 – 7642 Set 5	(guiding)
$0^h\ 06^m$ E?	46° 00′	0	4.9	B2 sex	2+2+2	" " 7 7647 – 7655 Set 5	fine
$0^h\ 12^m$ W	46° 00′	1	5.2	B3 ne	2+2+2	" " 7 7657 – 7665 Set 5	"
					8/6	Set D.	ok

4PH in frig
yellow box empty. Br

393

Date June 21-22 1960 Tue/Wed Observer L. & Pt - H5 Julian Day 2437107.5

⊙ 90° 34' 04.8" 3435.2"

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25172	HD 131861	14 ~~52.0~~ 50.9	+45 ~~29~~ 43	12"	IIaO	008	23.3°	2135	0045	1
25173	HD 175363	18 52.3	59 53	"	"	"	23.0	0056	0242	2
	"[illegible]"	[illegible]	[illegible]			"				

Dome Temp. 66°F

Focus 12.92

Dome Temp.

Transparency Conditions

Passing Clouds. all night
0230 Cloudy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0336W	+45° 31'	O	7.64	F3	2+2+2	Seq. 7 KAFS 7676 - 7684	fair (guiding)
0134W	+60 00	O	6.9	B4e	2-4	Set 2 Seq. 7 7686 - 7692 MWC308	
					5/6	" 3	o.k.

2 P.H. in Dig.

	me	sc	gw	me	s
June 22	+1M40	-1M21.7	+22.1	0.0	+21M41.3

395

Date June 22-23 /60 Observer - Hy Julian Day 2437108.5
Wed-Thu ⊙ 91° 31' 20.0" 3434.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25174	BD+28°3434	19 37.3	+28 55	12"	IIaO	.008	—	00:00	—	3

25173 F. - Focus Tests G

Jun 23. T = 23°C . .008.
Plunger out 3 3/8 inches.
P.H. #2
10 sec exposure ea.
Normal I-mages only.

P.H. posn	focus
0	12.96
1½	.94
3	.92
4½	.90
6	.88
7½	.86
10	.84

Dome Temp. 64°F

Transparency Conditions Poor (haze)

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			8.5	B1Ibp	2=	~~3 exp. 5 in 1½ hr!~~ 7695	
						haze continually increased. At 01:00 cloud appeared. — OUT	
						2 pth. in frig.	
						handle on observer's box broken.	
					June 24	NC +1m40 / SC −1m24.2 / SW +20.5 / MC +1 / Z +41m350	

397

Date June 26/26 Observer [illegible] - Hy Julian Day 2437111.5
0 94 23 03.8 3433.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25174	4 IV	–	–	12"	IIaO	008	23	22 25	23h05	4
	4 I	–	–	12"	IIaO	008	23	23h05		4
25175	HD 192445	20h09.8	+36°02'	12"	IIaO	008	23½	00 36	01 46	1
~~25176~~	~~HD 124~~	FOCUS TEST	OTB							
25176	HD 187691	19 46.2	+10 10	12"	IIaO	008	23½	02 04	02 36	3
"	"	"	"	"	"	016	23½	02 37	02 52	3
25177	HD 195407	20 26.0	+36°39'	12"	IIaO	008	23½	03 05	03 47	4

Dome Temp. 68°F

Focus

Dome Temp.

Transparency Conditions Fine

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
—	−23°01′	0	6	G2	6+6	Set 2	7702 – 7710	fine
0h 25m E	−23°01′	0	6	G2	6+6	Set 8	7711 – 7721	fine
0h 29m E	+18°12	0	7.1	B2ne	2-2-2	= MWC 332 Be programme	7725 – 7733	fine c+o R
0 45 W	+10°21	0	5.8	F8	2-2-2	STD VEL setting 8 p.h. seq 6	7735 – 77[illegible]	[illegible]
1 03 W	"	0+	"	"	2-2-2	" " 3 " "	7739 – 7743	good
1 20 W	+36°55	1	7.7	B3e	2-2-2	= MWC 346 seq 8	7744 – 7755 11 meters of 20	[illegible]

CLOUDS + HAZE

3 ph in frig

Guests in night 179 guests

Require new batteries for [illegible]

reason for non-cyclic use of p.h's: half of #2 was missing; found it in observer's box.

1399

Date Sun - Mon Jun 26-27/60 Observer — Gg Julian Day 2437112.5
0 95 20 17.7 3433.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25178	HD 164284	$17^h 55.3^m$	4° 22'	1-12	II-AO	.008	25	00:40	00:50	1
25179	Refocused HD 172044	18 32.9	+33 23	"	"	.016	"	1:17	1:27	2
25180	HD 180398	19 11.3	12 56	"	"	.008	"	1:45	3:45	3
	Focus Test		OTB							

Dome Temp. 68

Focus

Dome Temp. 63

1½ to 1 mm

Transparency Conditions Fine except for Aurora 400

00:00 to 01:30 { Curtain Aurora in North. Ray Aurora around zenith } filmy, changing quickly in brightness

Extinction increased at 03:00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0h 55m W	+04° 26'	0	4.8	B5me	2-2	Setting 5 - Be Prog. (MWC 278) 7765 4 69	Spoiled during development!
0 58 W	33 26	0	5.4	B9	1-1-1	Setting 5 B-Std Vel. 7781 5 86	
2h 35m W	13 06	0	7.7	B3me	2-2-	Setting 5. Be Prog (MWC 312) 7791 781	
					8/6	Setting 9.	N.G.

4 P.H. + 4 in yellow bay

401

Date Tues June 27/28 Observer HSH · L · H Julian Day 2437113.5

⊙ 96 17 31.2 3433.1

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~ 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25181	NGC 6205	1640.3	+3632	Newt	103a-O			2123 01	2124 01	1
25182	" 5904	1516.6	+0214	"	"			2131 40	2133 40	2
25183	" 5634	1427.5	-0548	"	"			2138	2152	1
25184	" 5897	1515.2	-2051	"	"			2201	2211	2
25185	" 6218	1645.1	-0153					2219 30	2221 30	1
25186	" 6254	1655.0	-0403					2225 20	2227 20	2
25187	" 6366	1725.6	-0502					2235	2245	1
25188	" 6535	1801.8	-0018					2250	2302	2
25189	" 6356	1721.3	-1747					2309	2317	1
25190	" "	"	"					2319	2325	2
25191	" "	"	"					2327	2335	1
25192	" "	"	"					2337	2343	2
25193	" 6093	1614.7	-2254					2351	2357	1
25194	" 6356	1721.3	-1747					0002	0016	2
25195	" "	"	"					0012	0020	1
25196	" 6649	1831.2	-1030					0024	0044	2

Dome Temp. +75

Focus

Dome Temp.

Transparency Conditions [illegible] 402

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Ex. Comp.	REMARKS	Quality
0109E	3631						
0025W					2	Light in S.W.	
0132W	-0551				14		
0103W					10	Not visible because of sl. light.	
0015E					2	Focussed on λ Oph.	
0020E					2		
0033E					10		
0052E					12		
0008W					8		
0011W					6		
0041W					8		
0129W					6		
0150W					6	Focused on ν Sco	
0156W					8	Some light at.	
0106W					8		
0220W					20		

403

1960

Date June 27-28 Cont'd. Observer S-L-Hv Julian Day 2437113.5

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~ 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25197	NGC 6356	1721.3	-1747	NEWT. E	103a-O			0048	0055	1
25198	" "	"	"	"				0100	0108	2
25199	" "	"	"					0110	0120	1
	~~" 6626~~	~~1822.1~~	~~-2454~~							
25200	" 6656	1833.9	-2358					0139	0143	
25201	" 6838	1951.7	+1839					0148	0152	
25202	" 6626	1822.1	-24.54					0158	0204	
25203	" 6544	1804.9	-2501					0207	0221	
25204	" 6717	1852.9	-2246					0226	0244	
25205	6712	1850.8	-0846					0249	0257	
25206	6338	1951.7	+1839					0301	0305	
25207	7089	2131.4	-0100					0312[26]	0312[56]	

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Ex. Comp.	REMARKS	Quality
0141W					~~8~~ 7		
0155W					8		
0206W					10		
0117W					4		
0008W					4		
0150W					6		
0225W					14		
0200W					18		
0214W					8		
0121W					4		
0105E					30s	A good night, but lights very annoying.	
						Worst offenders are 12 belonging to	
						Construction Company in Richmond, which	
						stay on all night. It's not	
						Wed. June 28-29 Hopefully cloudy evening	

SPECTROPHOTOMETER

Date..... **Observer**..... **Julian Day**.....

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~	~~Inst.~~ Spec.	~~Emulsion~~ region	Analys. Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
601 - 70	star	from obs. program		Hγ	x 2	20 ~ 10	5/3 C F	clock	—

↑ running number ↑ night number (constant for night)

"Hour angle" at beginning from pier
"Dec." at beginning from drum
"Seeing" estimate size of star image compared to aperture size = 30"

On chart put "Plate No." e.g. 601 - 70 at beginning of each tracing. Star name if you like

"Mag." "Spec." from obs. prog.
"Comp." put 30" for aperture size
"Remarks" beg. and ending range of λ (counter) and list Letter
also 1 A./sec., 2 in./min.

5-1 5-2 5-3 5-4 5-5 5-6 5-7
=
4-1 4-2 4-3 4-4 4-5 4-6 4-7

nding Time
E.S.T.

—

"

nter)
ter

407

Hd	Heard
MR	MacRae
Se	Searle
vB	van den Bergh
L	Longworth
Hr	Hawker
Dq	Demarque
Ru	Russell
Li	Linstrom
DH	David Hogg
Gg	B. Greig
Hy	R. Henry

Focus Test

8s plunger down	Se	GHV	Bearle
6s plunger halfway, prism N.	Se	HV	

α Per — Russell

OB — Heard
Wehlau — Heard

N Bin — Northcott
KA 8x8 — Northcott

KAFS — enter on cards
file in far drawer

MK STD — J.F.H.

Centre to Red means focus setting should be incremental

Wrong! see front of book.
JFH.